ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999 CAPITAL BUDGET

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GOVERNMENT DOCUMENTS

ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999 CAPITAL BUDGET

SCHEDULE "A"

IN ACCORDANCE WITH COUNCIL GUIDELINES

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ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

IN ACCORDANCE WITH COUNCIL GUIDELINES

SCHEDULE "A"

TOTAL	1995	1996	1997	1998	1999	TOTAL
Gross	**76,293**	**43,695**	**51,264**	**36,917**	**43,322**	**251,491**
Revenues	**25,580**	**11,974**	**16,327**	**11,616**	**13,259**	**78,756**
DC Credit	**4,225**	**538**	**990**	**618**	**1,043**	**7,414**
Net	**46,488**	**31,183**	**33,947**	**24,683**	**29,020**	**165,321**

WATERWORKS	1995	1996	1997	1998	1999	TOTAL
Gross	31,374	14,906	19,976	18,935	18,088	103,279
Revenues	12,465	3,910	6,399	5,087	4,240	32,101
DC Credit	2,303	3	831	594	840	4,571
Net	16,606	10,993	12,746	13,254	13,008	66,607

SANITARY SEWERS	1995	1996	1997	1998	1999	TOTAL
Gross Cost	29,628	16,321	17,960	9,271	16,770	89,950
Revenue	9,220	4,349	5,415	3,839	5,028	27,851
DC Credit	1,279	286	149	19	107	1,840
Net Cost	19,129	11,686	12,396	5,413	11,635	60,259

STORM SEWER	1995	1996	1997	1998	1999	TOTAL
Gross Cost	13,925	10,801	11,537	8,016	7,755	52,034
Revenue	3,348	3,400	4,191	2,362	3,656	16,957
DC Credit	643	249	10	5	96	1,003
Net Cost	9,934	7,152	7,336	5,649	4,003	34,074

WASTE MANAGEMENT	1995	1996	1997	1998	1999	TOTAL
Gross Cost	1,366	1,667	1,791	695	709	6,228
Revenue	547	315	322	328	335	1,847
DC Credit	0	0	0	0	0	0
Net Cost	819	1,352	1,469	367	374	4,381

ENVIRONMENTAL SERVICES DEPARTMENT
1995 - 1999 CAPITAL BUDGET

Vision 2020 Statement

Water Distribution System

The Water Distribution System component of the Environmental Services Department 1995 - 1999 Capital Budget supports the goals of Vision 2020 by promoting the following:

- the provision of a safe, reliable and efficient potable water distribution system

- the provision of appropriate municipal services in a time frame to accommodate desired development

- the improvement of water resource quality through;
  - reduced water consumption
  - the protection of ground-water resources
  - the protection of natural habitats

  and
  - coordination and cooperation with stakeholder agencies

- review of probable ecological effects of proposed works and the commitment to the protection of natural habitats

- the implementation of review processes that promote community involvement in the planning process when applicable

- the mitigation of air pollution sources and the promotion of energy efficient materials and practices for capital work initiatives

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

WATERWORKS PROGRAM (000's)

IN ACCORDANCE WITH COUNCIL GUIDELINES

TOTAL	1995	1996	1997	1998	1999	TOTAL
GROSS COST	31,374	14,906	19,976	18,935	18,088	103,279
REVENUE	12,465	3,910	6,399	5,087	4,240	32,101
DC CREDIT	2,303	3	831	594	840	4,571
NET COST	16,606	10,993	12,746	13,254	13,008	66,607

NEW PROJECT SUMMARY (inflated)

	1995	1996	1997	1998	1999	TOTAL
Gross	15,347	13,944	19,260	18,935	18,088	85,574
Revenues	5,136	3,462	6,243	5,087	4,240	24,168
DC Credit	86	0	780	594	840	2,300
Net	10,125	10,482	12,237	13,254	13,008	59,106

WORK–IN–PROGRESS PROJECT SUMMARY

	1995	1996	1997	1998	1999	TOTAL
Gross	16,027	962	716	0	0	17,705
Revenues	7,329	448	156	0	0	7,933
DC Credit	2,217	3	51	0	0	2,271
Net	6,481	511	509	0	0	7,501

WATERWORKS

NEW PROJECTS

1995 – 1999 WATERWORKS CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

Printed as at 23 - Jan - 95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
4051576	ANNUAL – Cost Allocation – Environmental Admin	6	251	251			251	251			251	251			251	251			251	251			1,255	1,255			N/A
4051578	ANNUAL – Cost Allocation – Roads Admin	6	755	755			755	755			755	755			755	755			755	755			3,775	3,775			N/A
4051579	ANNUAL – Cost Allocation – Facilities Admin	6	8	8			8	8			8	8			8	8			8	8			40	40			N/A
4051575	ANNUAL – Cost Allocation – Finance	6	52	52			52	52			52	52			52	52			52	52			260	260			N/A
4051577	ANNUAL – Cost Allocation – Legal	6	29	29			29	29			29	29			29	29			29	29			145	145			N/A
4053531	LI – Twenty Rd W – Glancaster to 730m W of Hwy #6	4	1,185	1,008	84	93																	1,185	1,008	84	93	1 *
4053541	LI – Acadia Dr – 83m S of Butler to 160m South	4	28			28																	28			28	1 *
4051508	ANNUAL – Minor Improvements – Waterworks	2	371			371	400			400	400			400	400			400	400			400	1,971			1,971	1
new	PUMC Plant Contractual Allocation	8	205			205	215			215	222			222	230			230	218			218	1,090			1,090	1 *
new	PUMC Outstation Contractual Allocation	9	2,746	1,804		942	1,421	1,130		291					1,042	733		309					5,209	3,667		1,542	1 *
new	PUMC Additional Outstation Allocation	9					1,077			1,077	65			65	41			41					1,183			1,183	1 *
4051473	West Ave – Barton to Petit & Petit – West to Winona	3	164			164																	164			164	1 *
4051635	Wilson E – Lower Filman to Lower Lions Club Rd – w/m (COIW – S	2	198			198																	198			198	1
new	LI repay – Parkside 80 m w/o Duncan to 210 m w/o Hollybush	4					127			127													127			127	1 *
new	Garth St. – Stonechurch to Rymal trunk w/m (H – N)	3									1,070	900	170										1,070	900	170		1 *
new	Highway #6 – Dickenson Rd to Airport Rd – trunk w/m (H – N)	3									1,596	1,436	160										1,596	1,436	160		1 *
4051734	Upper Gage – 60m s/o Anna Capri to Rymal trunk w/m	4									37	18	4	15	836	465	82	289					873	483	86	304	1 *
new	Tunbridge Cr. – Stonechurch to mid – block Torlake	3													560	302	34	224					560	302	34	224	1 *
new	Highway #6 – Twenty Rd to Dickenson Rd – trunk w/m (H – N)	3																	1,350	1,215	135		1,350	1,215	135		1 *
4051505	ANNUAL – Water Services Replacement / Maintenance	2	650			650	539			539	546			546	555			555	563			563	2,853			2,853	2
4051501	ANNUAL – Valve Replacement / Maintenance	2	809			809	809			809	809			809	809			809	809			809	4,045			4,045	2
4051507	ANNUAL – Local Improvements – Waterworks	4					130	67		63	423	68		355	120	38		82	200	100		100	873	273		600	2
4051504	ANNUAL – Hydrant Replacement / Maintenance	2	631			631	631			631	631			631	631			631	631			631	3,155			3,155	2
4051502	ANNUAL – Watermain Cleaning and Lining	1	881			881	1,087			1,087	1,460			1,460	1,185			1,185	1,712			1,712	6,325			6,325	2
4051546	Tally Ho (W Leg) – Mayfair to Bendamere – w/m	2	180	42		138																	180	42		138	3
4051650	Sulphur Springs – Wilson to Mansfield w/m	3	186	59		127																	186	59		127	3
4051464	Balmoral – King to Justine w/m	3	452	82		370																	452	82		370	3
4051567	Cootes Drive – Court St to Thorpe St – w/m	3	79	18		61																	79	18		61	3
4051529	East 15th – Howe to Fennell – w/m	2	228	43		185																	228	43		185	3 A
4051543	Organ Cres – Fennell to Upper Kenilworth – w/m	2	369	78		291																	369	78		291	3 A
4051463	East 36th St – Fennell Ave to Mohawk Rd – w/m	2	664	144		520																	664	144		520	3 A
4051528	East 15th – Brucedale to Queensdale – w/m	2	177	34		143																	177	34		143	3
4051541	L.Horning – Purvis to Carwyn/Yates – Purvis to s/end	2	240	54		186																	240	54		186	3
4051418	Leslie Ave – West 23rd to West 32nd – w/m	3	392	82		310																	392	82		310	3
4051565	East 16th – Fennell to Howe – w/m	2	232	46		186																	232	46		186	3 A
4051482	Federal St – Grays Rd to Green – w/m	2	20			20	525	125		400													545	125		420	3
4051561	Carwyn Cres – Purvis to Yates Dr – w/m	3	157	33		124																	157	33		124	3
4051420	McElroy Rd – Clarendon to Upper Wellington – w/m	2	235	45		190																	235	45		190	3
4051536	East 44th – Queensdale to Fennell – w/m	2	338	70		268																	338	70		268	3
4051647	King William – Cathanne to Wellington w/m	3	298	73		225																	298	73		225	3 A
4051521	Chegwin – McMurray / Hope – w/m	3	267	58		209																	267	58		209	3
4051675	Leaside – Barton to Arvin – w/m	3	251			251																	251			251	3

1995 – 1999 WATERWORKS CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

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4051562	Charles St – Bold to Hurst – w/m	3	62	13		49																	62	13		49	3 A
4051599	ANNUAL – Preliminary Engineering – Waterworks	5	353			353	375			375	275			275	150			150	150			150	1,303			1,303	3
4051537	Fay Ave – Broker to Organ Cres – w/m	2	110	23		87																	110	23		87	3 A
4051523	Columbia – Bendamere to n/o Delmar – w/m	2	216	46		170																	216	46		170	3
4051520	Bendamere – Garth to w/leg Bnarwood Cres w/m	3	152	40		112																	152	40		112	3
4051540	Lincoln – Federal to Crompton Way – w/m	2	193	45		148																	193	45		148	3
4051533	Replacements Upgrades w/Local Municip Roads	2	232			232	160			160	841			841	1,385			1,385	3,027			3,027	5,645			5,645	3
4051568	King St – Strathcona to Cathedral – w/m	3					260	10		250													260	10		250	3
4051519	Baldwin–York to Court & Court–Baldwin to Dundas	3					283	66		217													283	66		217	3
4051671	Bromley – East 16th to Holt – w/m	2					133	27		106													133	27		106	3
4051663	Glengrove – Reid to Armstrong – w/m	3					209	37		172													209	37		172	3
4051655	Grandfield – Brentwood to Kingslea – w/m	2					221	39		182													221	39		182	3 A
4051548	Victoria – Market to Sydenham – w/m	3					379	68		311													379	68		311	3
4051524	Concord – Hunter to N/end – w/m	2					237	49		188													237	49		188	3
4051653	Reid Ave – Roxborough to Queenston w/m	3					320	68		252													320	68		252	3
4051651	Paling – Barton to N/end – w/m	2					273	51		222													273	51		222	3
4051660	Burfield – Brentwood to Kingslea – w/m	2					254	44		210													254	44		210	3 A
4051670	Castlefield – House #39 to South End – w/m	2					256	51		205													256	51		205	3
4051652	Melrose – Barton to Beechwood – w/m	3					140	24		116													140	24		116	3
4051527	Durham – Hwy #8 to Morth of Roxborough w/m	3					411	96		315													411	96		315	3
4051668	East 25th – Concession to Queensdale – w/m	2					375	79		296													375	79		296	3 A
4051736	Melbourne – Dundurn to Locke – w/m	2					309	48		261													309	48		261	3 A
4051535	East 42nd – Seventh to Mohawk – w/m	2					542	109		433													542	109		433	3 A
4051658	East 21st – MacLennan to Franklin – w/m	2					210	45		165													210	45		165	3 A
4051454	Cedardale Ave – Grays Rd to Green Road w/m	3									517	125		392									517	125		392	3
4051646	Hughson – King Willian to Main – w/m (COIW–S)	3									202			202									202			202	3 A
new	Mountain Brow–Margate to Broker w/m	3									397	107		290									397	107		290	3
4051638	Birch – Burlington to TH&B Rlw – w/m	3									267	61		206									267	61		206	3
4051718	District Yard – Land Purchase	2									446			446									446			446	3 A
4051676	Hillside – South St to Rowanwood – w/m	2									85	21		64									85	21		64	3
4051681	Bond – King to Park – w/m	3									63	16		47									63	16		47	3
4051640	Mohawk – Wilson to McNiven – w/m installation	3									326	81		245									326	81		245	3 A
4051680	Garth St.–Fennell to Auchmar – w/m	3									158			158									158			158	3
4051629	St. Joseph's Dr – John St to Approx 186m E w/m (COIW–S)	2									104			104									104			104	3 A
4051461	Selkirk Ave – Main St to Normanhurst Ave – w/m (COIW–S)	2									394	80		314									394	80		314	3 A
4051630	Kilbourn Ave – Pine Dr to Royce Ave – w/m (COIW–S)	2									193			193									193			193	3
4051674	Barton – McNeilly to Winona – w/m (COIW–S)	2									765			765									765			765	3 A
4051549	Warwick – Hwy #8 to Crompton Way – w/m	3									351	76		275									351	76		275	3
4051564	Federal St – Deerhurst Ave to East End – w/m	2									290	76		214									290	76		214	3
4051672	Woodward – Vansitmart to Walmer w/m	3									117	28		89									117	28		89	3
4051525	Corman – Hwy #8 to King – w/m	3									417			417									417			417	3
4051682	Griffin & Union – Main to Mill – w/m	3									190			190									190			190	3

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4051669	Delevan Cres – Seven Oaks to Seven Oaks – w/m	2													160	35		125					160	35		125	3
4051550	Winona Rd – Barton to S Service Ramp – w/m	3													408	85		323					408	85		323	3
4051715	Cameron – Wilson to St. Margaret's – w/m	2													266			266					266			266	3
4051727	Clifford – Ainslie to South End – w/m (COIW-S)	2													136	27		109					136	27		109	3 A
4051558	Napier St-Hatt to MacNab/MacNab-Napier to Brock (COIW-S	3													313			313					313			313	3
4051725	Barton – Winona Rd to Fifty Rd – w/m (COIW-S)	2													341			341					341			341	3 A
4051724	Head St – MacNab to James – w/m	3													117			117					117			117	3
4051472	Helen – Willet to N End Willet – Helen to York (COIW-S)	3													327			327					327			327	3
4051656	Fernwood – House #46 to Ninth Ave – w/m	2													142	28		114					142	28		114	3
4051563	Red Oak Ave – Deerhurst to Margaret – w/m	3													346	66		280					346	66		280	3
4051631	Homeside Ave – Hwy #8 to s/end – w/m (COIW-S)	2													366			366					366			366	3
4051659	Clarendon – Fennell to South Bend – w/m	2													406	81		325					406	81		325	3
4051662	Edith – Broker to Nova – w/m	2													326	72		254					326	72		254	3
4051643	Roxborough/Crompton Way – w/m Install/Replace	2													329	77		252					329	77		252	3
4051450	Dundurn St – Aberdeen Ave to Stanley Ave – w/m (COIW-S)	2													143			143					143			143	3
4051665	Kings Forest – Broker to Nova – w/m	2													271	64		207					271	64		207	3
4051664	Greenwood – 90m South of fernwood to s/end – w/m	2													179	36		143					179	36		143	3
new	Brock St -King St to Melville St -w/m	3													115	30		85					115	30		85	3
new	McNeilly Rd-South Service to Barton St.-w/m	3													507	248	259						507	248	259		3
4051522	Collegiate – Grays to Lake – w/m	3													390	90		300	164	33		131	554	123		431	3
4051730	Alma St from W End to Queen – w/m	3													172	42		130					172	42		130	3
4051733	Upper Wellington – Fennell to Howe – w/m	2													233	46		187					233	46		187	3
4051661	Beechwood – Sherman to Lottridge – w/m	2													345	59		286					345	59		286	3
new	Canada St.-Poulette to Pearl-w/m	3																	215			215	215			215	3
new	Winona Rd-Barton St. to Hwy 8 – w/m	3																	360	330	30		360	330	30		3
4051639	Galbraith – Lake to 180m West – w/m	3																	98	23		75	98	23		75	3
new	Head St. – Mercer to Morton – w/m	3																	90			90	90			90	3
new	Ferguson Ave-Wood St to Picton St to Simcoe St w/m	3																	394			394	394			394	3
4051731	Delsey – Cameron to Lowe Ct – w/m	3																	114	26		88	114	26		88	3
new	Mapledene Dr,Brooks Dr, Robina Rd-w/m	3																	525			525	525			525	3
4051720	Victoria – Burton to CNR Track – w/m	3																	8			8	8			8	3
4051717	Chester Rd – Hwy #8 to Crompton Way – w/m	2																	376	81		295	376	81		295	3
new	Lewis Rd-CNR railway to Barton St.-w/m	3																	200	28		172	200	28		172	3
4051644	Second St N – Galbraith to Charles – w/m	2																	443	95		348	443	95		348	3
new	Dundurn S -Aberdeen to Hillcrest w/m	3																	368	68		300	368	68		300	3 A
new	Simcoe St-Ferguson to railway-w/m	2																	75			75	75			75	3
4051649	Old Dundas Rd – Wilson to Montgomery – w/m	2																	13			13	13			13	3
new	Woodworth Dr and Elgin Pl.-w/m	2																	365			365	365			365	3
4051545	Sulphur Springs-Mansfield to 190m W-Install w/m	4																	91			91	91			91	3
new	Barton St.-Main to Hamilton Waterdown-w/m	3																	221			221	221			221	3
4051722	Up Sherman-Stonechurch to Beaverton -trunk w/m	4																	130	63	15	52	130	63	15	52	3
4051735	Norwich – Hwy #8 to Crompton Way – w/m	2																	11			11	11			11	3

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4051632	Margaret Ave – Hwy #8 to Guernsey Dr – w/m (COIW-S)	2																	434			434	434			434	3
new	Rebecca St.–James to John w/m	3																	150			150	150			150	3
new	Crestview Dr –Colleen Cres to Brookview Ct w/m	3									112			112									112			112	4
new	System Optimization Study	5									150			150	150			150					300			300	4
new	Fifty Rd–Barton to Baseline–w/m	4													1,015	548	61	406					1,015	548	61	406	4
new	Parkside Dr –Hwy 6 to west of Duncan Ave.–w/m (COIW-S)	4													509	194	86	229					509	194	86	229	4
new	Pritchard & Harlowe–Highland to Anchor w/m	4																	200	62	138		200	62	138		4
new	Upper Mt. Albion–Highland to 410 m south w/m	4																	214	77	137		214	77	137		4
new	Kent St.–Glenfern to Amelia–w/m	4																	3			3	3			3	4
new	S.Service Rd of QEW–Seaman to Fruitland Rd–w/m	4																	8			8	8			8	4
new	Lewis/N.Service/Campview–w/m	4																	10			10	10			10	4
new	Bay–Aberdeen/Inglewood/Undercliffe–w/m	3																	7			7	7			7	4
new	Westview–Shavers to east end – w/m	3																	143	20	44	79	143	20	44	79	4 A
new	Barton St–McNeilly to Winona–trunk w/m	4									1,485	985	203	297									1,485	985	203	297	5 A
new	Olympic Dr–King St.to n/leg Hopkins Ct trunk w/m	3									1,650	710	198	742									1,650	710	198	742	5 A
new	Barton–Winona to Fifty–trunk w/m	3													442	239	27	176					442	239	27	176	5 A
new	LI–Trinity Road–Highway 53 to HEPC R.O.W. w/m	4																	383	172	211		383	172	211		5
new	Acredale–Cullum to easement–Carlisle w/m	3																	99	85	9	5	99	85	9	5	5
new	P.S. W–H7 to 150 m southerly–trunk watermain	4																	195	164	31		195	164	31		5
new	Cullum Dr.–S Bannisdale to Acredale–Carlisle w/m	3																	121	103	11	7	121	103	11	7	5
	Total Before Inflation		15,046	5,035	84	9,927	13,403	3,328		10,075	18,149	5,883	735	11,531	17,493	4,700	549	12,244	16,383	3,840	761	11,782	80,474	22,786	2,129	55,559	
	Inflation Factor		102%	102%	102%	102%	104%	104%	104%	104%	106%	106%	106%	106%	108%	108%	108%	108%	110%	110%	110%	110%					
	TOTAL		15,347	5,136	86	10,126	13,944	3,462		10,482	19,260	6,243	780	12,237	18,935	5,087	594	13,253	18,088	4,240	840	13,008	85,574	24,168	2,300	59,106	

WATERWORKS

WORK-IN-PROGRESS PROJECTS

1995 – 1999 WATERWORKS CAPITAL BUDGET WORK-IN PROGRESS PROJECTS – SCHEDULE "A"

Printed as at 26-Jan-95

Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4051302	Watermain Cleaning and Lining	1	491	443		48													491	443		48
4051301	Major Valve Replacement – Various Locations	2	678	168		510													678	168		510
4051449	Turnbull Rd – Autumn Leaf Rd to Orchard Ave w/m	2	180			180													180			180
4051308	Minor Improvements – Waterworks	2	242	123		119													242	123		119
4051405	Replacement of Water Services	2	646			646													646			646
4051343	Sheridan Dr – East 16th to Holt-w/m	2	68	66		2													68	66		2
4051348	Southbend Rd – Seven Oaks – McElroy w/m	2	186	172		14													186	172		14
4051331	Burkholder Dr – East 25th to Upper Sherman-w/m	2	167			167													167			167
4051423	Wilson St – Lower Lion's Club Rd to Filman Rd	2	39			39													39			39
4051341	E 32nd – Crockett St to Munn St – w/m	2	109			109													109			109
4051404	Hydrant Replacement	2	622			622													622			622
4051342	Watermain Replacement/Design	2	39	32		7													39	32		7
4051498	Oversizing – Haldimand Norfolk Water Supply	3	47			47													47			47
4051346	Mill St – Hwy #5 to Union St w/m	3	171			171													171			171
4051156	Sydenham – Alma to Cayley w/m	3	84	32		52													84	32		52
4051496	East Bend – King to Main w/m	3	80			80													80			80
4051142	Parkside-Braeheid to Main&Main-Parkside to Kelly	3	511	477	8	26													511	477	8	26
4051345	King St East – Bell to West of Garside w/m	3	215	213		2													215	213		2
4051416	Main St – Tolton Ave to Parkdale Ave – w/m	3	202			202													202			202
4051336	Mohawk Rd – Scenic Dr to Hazelwood Ave-w/m	3	113			113													113			113
4051154	Hwy #5 – Hamilton to 70m East of Mill w/m	3	492	480		12													492	480		12
4051484	Gage – King to Main; Dunsmure – Gage to CNR Tracks	3	184			184													184			184
4051494	Dundurn N – York Blvd to Lamoreaux – w/m	3	148			148													148			148
4051327	George St – Hwy #5 to e/w Ends William St-w/m	3	55			55													55			55
4053421	LI-Hamilton/Centre/Northlawn/Summit/Westview/Main	4	277	209		68													277	209		68
4053201	LI – Hwy #2 – Hwy #53 to Shaver w/m	4	351	338	5	8													351	338	5	8
4053464	LI – First Rd W – Hwy #53 to 80m S of Slinger	4	80			80													80			80
4051999	Closed Projects – Waterworks	4	35	21		14													35	21		14
4053042	LI – Pritchard RD – 235m to 400m N of Rymal w/m	4	59	34		25													59	34		25
4051244	Back-up Transformer – Pumping Stn.W-H6A	4	74	68		6													74	68		6
4051499	Preliminary Engineering – Waterworks	5	32			32													32			32
4051476	Cost Allocation – Environmental Admin	6	504			504													504			504
4051479	Cost Allocation – Facilities Admin	6	7			7													7			7
4051477	Cost Allocation – Legal	6	30			30													30			30
4051475	Cost Allocation – Finance	6	53			53													53			53

1995 – 1999 WATERWORKS CAPITAL BUDGET WORK-IN-PROGRESS PROJECTS – SCHEDULE "A"

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Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4051478	Cost Allocation – Roads Admin	6	763			763													763			763
4051807	Additions to Water Treatment Plant	8	107	107															107	107		
4051403	Woodward WTP – Operational Improvements	8	100			100													100			100
4051485	Woodward WTP – Continuous Fluoride Analyzer	8	15			15													15			15
4051319	Woodward WWTP/WTP Supervisory Control (33%)	8	1,305	1,260		45													1,305	1,260		45
4051419	Pumping Stn – North Sydenham Neighbourhood	9																				
4051918	Pumping Station W-H6B	9	8,363	6,753	1,381	229													8,363	6,753	1,381	229
4051471	Pumping Station H2 (Ferguson Ave)valves	9	300			300													300			300
4051487	Woodward WTP High Lift Pump Stn – Rewind 4 Motors	9	60			60													60			60
4051242	Hwy #53 – Pump Station WH18 Westerly – w/m	9	551	486	65														551	486	65	
4051424	WTP – Alterations to Lynden Pumping Station	9	49			49													49			49
4051701	Pumping Station W-H1 Surge Protection	9	2,965	2,962	1	2													2,965	2,962	1	2
4051024	Reservoir W-AOA and Feedermain	9	112	58	6	48													112	58	6	48
4051015	Well W-F4B,Greensville Pump and Standby Power	9	51	46	1	4													51	46	1	4
4051402	Watermain Cleaning and Lining	1	699			699	30			30									729			729
4051470	Winona Park Rd – Winona Rd to w/end – w/m	2	10			10	276			276									286			286
4051152	QEW w/m Lowering & Relocation	2	193	112		81	104			104									297	112		185
4051406	Valve Replacement – Maintenance	2	274			274	30			30									304			304
4051469	Hwy #8 – Lewis Rd to Winona Rd – w/m	2	374			374	50			50									424			424
4051344	Mayfair Ave – e/Leg of Tally Ho to w/Leg – w/m	2	167	66		101	28			28									195	66		129
4051408	Minor Improvements – Waterworks	2	335			335	210	140		70									545	140		405
4051422	East 45th St – Fennell Ave to Mohawk Rd w/m	2	435			435	48			48									483			483
4051497	East 36th – Crockett to Munn w/m	2					139	27		112									139	27		112
4051401	Major Valve Replacement – Various Locations	2	260			260	270			270									530			530
4051248	Field Data Hardware	3	49	27		22	60			60									109	27		82
4051122	Mericourt – Whitney – Lower Horning Watermain	3	119	119			14			14									133	119		14
4051217	2nd-King to 1st & 1st-King to Wardrope – w/m	3	1			1	276	66		210									277	66		211
4051124	Hwy#5 to Rosecliffe, Waterdown – System Looping	3	2	1		1	154			154									156	1		155
4051130	Beach Strip – Watermain Upgrade on Side-Streets	3	280	188		92	571			571									851	188		663
4051488	John St – King to Young – w/m	3	302			302	63			63									365			365
4051483	Ferguson Ave – King St to CNR Railine w/m	3	1			1	486	122		364									487	122		365
4051239	Halson – Golf Links to Wilson – Watermain	3	122			122	10			10									132			132
4051486	Upper James St – Rymal Rd to Christopher Dr	3	180			180	60			60									240			240
4051491	Parkside Ave – Cayley to 230m N w/m	3	6			6	138	32		106									144	32		112
4051474	Wardrope Ave – King St to First Ave – w/m	3	68			68	17			17									85			85

1995 – 1999 WATERWORKS CAPITAL BUDGET WORK-IN-PROGRESS PROJECTS – SCHEDULE "A"

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Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4051116	Cootes Drive Trunk Watermain	4	136	90	11	35	3,062	1,277	408	1,377									3,198	1,367	419	1,412
4053461	LI – Cherry Beach & 1st,2nd,3rd Private Rd w/m	4	1			1	294	121		173									295	121		174
4051931	Nash Rd/Confederation – QEW to Centennial w/m	4	7	7			347	66	281										354	73	281	
4051025	Morden Neighbourhood Trunk Watermain	4	181	135	13	33	859	618	69	172									1,040	753	82	205
4051243	Hwy #53 – Fiddlers Green to Hamilton Dr – w/m	4					974	408	522	44									974	408	522	44
4051125	South Service – Lewis to 330m E – w/m	4	5	4		1	168	108	8	52									173	112	8	53
4051801	Water Distrb System – Pleasantview – Dundas	4	2,835	2,835			40			40									2,875	2,835		40
4051481	Stonechurch Ext–City limits to Golf Links w/m	4	2	1	1		643	350	293										645	351	294	
4051251	Meadowbrook Dr – 180m North of Galley Rd – w/m	4	75	75			26	18	6	2									101	93	6	2
4053141	LI – Ridge–Chipman to 57 m south w/m	4					34	9		25									34	9		25
4051467	Stonechurch Rd – Up. Gage to Up. Sherman trunk w/m	4					822	506	102	214									822	506	102	214
4051480	Garth St – Rymal to Twenty Rd – trunk w/m	4	10	8	1	1	1,580	1,280	142	158									1,590	1,288	143	159
4051328	Barton St – Glover Rd to McNeilly trunk w/m	4					1,020	508	308	204									1,020	508	308	204
4051468	Barton St – Kenilworth to Parkdale–valves	2	2			2	252			252	473			473					727			727
4053241	LI – Forbes St – Blossom Lane to 75m South w/m	4									44	11		33					44	11		33
4051930	Freelton Elevated Tank & Watermain	4	27	2		25	1,285	1,274		11	430	430							1,742	1,706		36
4051149	Ottawa – Main St. intersection to CNR Tracks–w/m	3	11	1		10	1,153	195		958					398			398	1,562	196		1,366
4051495	Algonquin & Hwy #5 – Thorncrest to Hwy #6 w/m	3	300	139	56	105	434	204	78	152	15	7	3	5	318	156	51	111	1,067	506	188	373
Various	1994 Work–in–Progress Carry–overs		(1,580)	(631)	(192)	(757)	1,580	631	192	757												
Various	Reduction to accommodate 1994 Carry–overs						(1,580)	(631)	(192)	(757)									(1,580)	(631)	(192)	(757)
	TOTAL		**27,901**	**17,727**	1,357	**8,817**	**16,027**	7,329	**2,217**	6,481	**962**	**448**	**3**	**511**	**716**	**156**	**51**	**509**	**45,606**	**25,660**	**3,628**	**16,318**

ENVIRONMENTAL SERVICES DEPARTMENT
1995 - 1999 CAPITAL BUDGET

Vision 2020 Statement

Sanitary Sewer Collection System

The Sanitary Sewer Collection System component of the Environmental Services Department 1995 -1999 Capital Budget supports the goals of Vision 2020 by promoting the following:

- the provision of a safe, reliable and efficient sanitary sewer collection system

- the provision of appropriate municipal services in a time frame to accommodate desired development

- the improvement of water resource quality through;
  - the support of the Hamilton Harbour Remedial Action Plan and the implementation of the Pollution Control Plan
  - the development and implementation of a Real Time Control System to optimize infrastructure operation effectiveness
  - the protection of ground-water resources and natural habitats
  - coordination and cooperation with stakeholder agencies

- review of probable ecological effects of proposed works and the commitment to the protection of natural habitats

- the implementation of review processes that promote community involvement in the planning process when applicable

- the mitigation of air pollution sources and the promotion of energy efficient materials and practices for capital work initiatives

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

SANITARY SEWER PROGRAM (000's)

IN ACCORDANCE WITH COUNCIL GUIDELINES

TOTAL	1995	1996	1997	1998	1999	TOTAL
GROSS COST	29,628	16,321	17,960	9,271	16,770	89,950
REVENUE	9,220	4,349	5,415	3,839	5,028	27,851
DC CREDIT	1,279	286	149	19	107	1,840
NET COST	19,129	11,686	12,396	5,413	11,635	60,259

NEW PROJECT SUMMARY (inflated)

	1995	1996	1997	1998	1999	TOTAL
Gross	17,389	14,468	17,380	9,271	16,770	75,278
Revenues	2,704	3,665	5,415	3,839	5,028	20,651
DC Credit	18	153	149	19	107	446
Net	14,667	10,650	11,816	5,413	11,635	54,181

WORK–IN–PROGRESS PROJECT SUMMARY

	1995	1996	1997	1998	1999	TOTAL
Gross	12,239	1,853	580	0	0	14,672
Revenues	6,516	684	0	0	0	7,200
DC Credit	1,261	133	0	0	0	1,394
Net	4,462	1,036	580	0	0	6,078

SANITARY SEWERS

NEW PROJECTS

1995 – 1999 SANITARY CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

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Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
4061576	ANNUAL – Cost Allocation – Environmental Admin	6	276	276			276	276			276	276			276	276			276	276			1,380	1,380			N/A
4061575	ANNUAL – Cost Allocation – Finance	6	57	57			57	57			57	57			57	57			57	57			285	285			N/A
4061577	ANNUAL – Cost Allocation – Legal	6	159	159			159	159			159	159			159	159			159	159			795	795			N/A
4061578	ANNUAL – Cost Allocation – Roads Admin	6	867	867			867	867			867	867			867	867			867	867			4,335	4,335			N/A
4061579	ANNUAL – Cost Allocation – Facilities Admin	6	8	8			8	8			8	8			8	8			8	8			40	40			N/A
4063544	LI – Acadia Dr – 83m South of Butler to 160m South	4	29	24	5																		29	24	5		1 •
4061563	Ottawa St – Brittania Ave to Beach Rd – Comb Sewer	2	315	38		277																	315	38		277	1 A
NEW	PUMC Plant Contractual Allocation	8	10,383	23		10,360	5,938			5,938	5,905			5,905	1,793			1,793	5,999			5,999	30,018	23		29,995	1 •
NEW	PUMC Outstation Contractual Allocation	9	3,074	933		2,141	204			204					161			161	956	438		518	4,395	1,371		3,024	1 •
NEW	LI – Mud Street and Easement – Hwy #20 to First Rd W	4	225	175	9	41	415	309	20	86													640	484	29	127	1
NEW	LI – West 5th St – 60m North of Rymal to 555m Northerly	4	92	80	4	8	402	395	2	5													494	475	6	13	1 A
4061505	ANNUAL – Local Improvements – Sanitary	4									2,872	2,000		872	3,000	2,000		1,000	2,400	1,600		800	8,272	5,600		2,672	1 A
NEW	LI – Springside Dr; Seneca Ave; Aldercrest Ave	4									622	493	1	128									622	493	1	128	1 A
NEW	LI – Upp. Wellington – 380m N of Stone Church to 275m N'ly	4													15	4	1	10	146	125	1	20	161	129	2	30	1 A
4061508	ANNUAL – Unspecified Major Maintenance – Sanitary	2	137			137	237			237	300			300	300			300	650			650	1,624			1,624	2 A
4061520	King W – Newton to Paisley – Lining	1	39			39																	39			39	2 A
4061527	Cold Water Creek Tr–Brentwood Dr to Old Anc Rd (COIW–S)	1	150			150	769			769													919			919	2
4061501	ANNUAL – Minor Improvements – Sanitary	2	417			417	450			450	440			440	340			340	624			624	2,271			2,271	2 A
4061509	ANNUAL – Rehabilitation – Unspecified and No Dig Repairs	1	300			300	489			489	450			450	361			361	630			630	2,230			2,230	2 A
4061533	Mountain Ave / Gemma Court – Sewer Rehabilitation	2					299			299													299			299	2
4061529	Hollywood St / Norfolk St – Glenmount to Sanders – Lining	1					96			96													96			96	2 A
NEW	LI – Falcon Road – Fifty Road to West End	4					140	123	3	14													140	123	3	14	2
NEW	LI – Windemere Road and Shippee Ave	4					394	308	8	78													394	308	8	78	2
NEW	LI – Trillium Ave & Lewis Rd – Trillium to S. Service Rd	4					530	278	16	236													530	278	16	236	2
4061628	James S – Beckley to James Mountain	1					23			23	276			276									299			299	2 A
4061624	Fieldway Dr – Cardinal to E End – Lining	1					60			60													60			60	2 A
4061625	Steven St – King to Cannon – Lining	1					8			8	84			84									92			92	2 A
4061631	Weir St N – Brittania to Roxborough–Replacement	2					78			78													78			78	2 A
4061623	Tuxedo N – Dunsmure to Approx 93m S – Lining	1					3			3	30			30									33			33	2 A
4061622	Brucedale – Upper Ottawa to Sherwood Rise – Lining	1					3			3	36			36									39			39	2 A
4061626	Spruceside – Aberdeen to Glenfern – Lining	1					6			6	42			42									48			48	2 A
4061723	Hillyard – Brant to Munroe – Lining	1									5			5	43			43					48			48	2 A
NEW	East 34th St – Crockett St to Munn St – Lining	1									39			39									39			39	2 A
4061720	Issac Brock – Mud to Approx 86m S – Lining	1									72			72									72			72	2
NEW	East 31st St – Aprx 70m S of Crockett to 70m N of Munn–Lng	1									13			13									13			13	2 A
4061727	Mohawk W – 120m E Southlea to 100m E	1									5			5	59			59					64			64	2
NEW	East 33rd St – Crockett St to Munn St – Lining	1									26			26									26			26	2 A
NEW	Labs – GC–MS System Upgrade	7									30			30									30			30	2
NEW	East 14th – Queensdale to 80m S;Brucedale to 82m N–Lng	1									30			30									30			30	2 A
NEW	East 32nd St – Crockett St to Munn St – Lining	1									39			39									39			39	2 A
4061728	Rennie – 60m E of Waterloo to 73m E	1									3			3	29			29					32			32	2
4061725	Shaw – Victoria N to Emerald N – Lining	1									7			7	68			68					75			75	2 A

1995 – 1999 SANITARY CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

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Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
NEW	Huxley – Monterey Ave to South End – Lining	1													50			50					50			50	2 A
NEW	Balsam Ave – Cumberland to Maplewood – Lining	1													56			56					56			56	2 A
NEW	Labs – Laboratory Renovation	7													200			200					200			200	2
NEW	Graham Ave – Monterey to Central – Lining	1																	63			63	63			63	2 A
NEW	Binkley Road – Sanders to 58m South	1																	16			16	16			16	2 A
NEW	Sanders Boulevard – Westbourne to 55m West	1																	23			23	23			23	2 A
4061522	Charles St – Hurst Place to 80m Southerly	3	49	11		38																	49	11		38	3 A
4061521	Purchase Easements over Various Existing Sewers	3	100			100	420			420													520			520	3 A
4061599	ANNUAL – Preliminary Engineering – Sanitary	5	355			355	550			550	154			154	50			50	150			150	1,259			1,259	3
4061565	Fay Ave at Organ Cresc – Dog Leg	3	16			16																	16			16	3 A
4063541	LI – Acadia Dr – Upper Sherman Ave – Easement	4					257	208	19	30													257	208	19	30	3 A
4063561	LI – Baseline – 80m W of East to 110m E of Creanona	4					278	261	3	14													278	261	3	14	3 A
4063662	LI – Barton St – Lewis Rd to 525m West; McNeilly to 300m E	4					58	42	5	11	580	471	31	78									638	513	36	89	3 A
4061630	Wilson St & Ease; Town of Anc. San Trk Sewer Sys	3					144	48	9	87	1,311	441	83	787									1,455	489	92	874	3
4063543	LI – Pritchard Rd – 60m N of Rymal E to 306m N	4					242	172	60	10													242	172	60	10	3 A
4061627	First St – Margaret to Hwy #5 (Pumping Sta S-D14)	3					46	12	2	32	432	109	21	302									478	121	23	334	3
4061722	District Yard – Land Purchase (Victoria)	2									127			127									127			127	3 A
NEW	LI – Rymal Rd W – Upper Paradise to West City Limits	4									152	142	2	8									152	142	2	8	3 A
NEW	Mohawk Rd – Wilson St to Lowden Ave	3									400	65		335									400	65		335	3 A
NEW	LI – Barton St – 345m East of Winona to 300m Easterly	4									24	15	2	7	236	163	14	59					260	178	16	66	3 A
NEW	Video Inspection of Western Interceptor	5									100			100									100			100	3
4061726	Scenic Dr – Colquhoun Cr to Approx 93m West – Lining	1									5			5	54			54					59			59	3
NEW	LI – Rymal Rd E – Upper Sherman to 460m West	4													26	8	2	16	276	210	8	58	302	218	10	74	3 A
NEW	LI – Rymal Rd E – Upper Wellington to Republic	4													32	5	1	26	320	246	3	71	352	251	4	97	3 A
NEW	Hunter Street – York to Dundas WWTP	3																	300			300	300			300	3
NEW	L.I.–Rymal Rd E – Glover to Trinity Church Rd	4																	619	382	33	204	619	382	33	204	3 A
NEW	Labs – ICP–MS	7									250			250									250			250	4
NEW	System Optimization Study	5									150			150	150			150					300			300	4
NEW	Rosanne / Palmer / Diane Ct / Intersections	3													5			5	40			40	45			45	4
NEW	Labs – Toxicology Studies	7													100			100					100			100	4
NEW	Labs – Walk in Fridge	7													70			70					70			70	4
NEW	Geographic Information System Interface	3																	100			100	100			100	4
NEW	L.I. – Miles Road – South City Limits to 440m Southerly	4																	280	186	52	42	280	186	52	42	4
NEW	Labs – Lab Automation	7																	80			80	80			80	4
NEW	Labs – Technical Upgrade(Inorganic)	7																	50			50	50			50	4
NEW	Labs – Technical Upgrade(Organic)	7																	50			50	50			50	4
NEW	Labs – Ovens/Incubators Upgrade	7																	50			50	50			50	4
	Total Before Inflation		17,048	2,651	18	14,379	13,906	3,523	147	10,236	16,378	5,103	140	11,135	8,565	3,547	18	5,000	15,189	4,554	97	10,538	71,086	19,378	420	51,288	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%					
	TOTAL		17,389	2,704	18	14,667	14,468	3,665	153	10,650	17,380	5,415	149	11,817	9,271	3,839	19	5,412	16,770	5,028	107	11,635	75,278	20,652	446	54,180	

SANITARY SEWERS

WORK-IN-PROGRESS PROJECTS

Printed as at 24-Jan-95

Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4061401	Minor Improvements – Sanitary	2	396			396													396			396
4061804	Catherine Street Combined Sewer Overflow	3	152			152													152			152
4061459	Organics Lab Upgrade	3	25			25													25			25
4061432	E Bend Ave S at Dunsmure Rd Int. By-Pass Sewer	3	5			5													5			5
4061251	Millbank – Mohawk Rd W to Lynbrook	3	116	99		17													116	99		17
4063426	LI – Brian Blvd – 128m W to 198m E of Braeheid	4	294	175		119													294	175		119
4063464	LI – Campview Rd – W End of Riviera Ridge to W end	4	1			1													1			1
4061226	Nash & Van Wagner's Beach Road	4	171	164		7													171	164		7
4063470	LI – First Rd W – 95m S Slinger to 35m N of Hwy #53	4	154	117		37													154	117		37
4063463	LI – Cornell Ave – Jones Rd to East End of Street	4	1			1													1			1
4063443	LI – Stonechurch Rd W – West 5th to Upper James	4	3			3													3			3
4063462	LI – Jones Rd – 175m S to 60m N of Lakeside Dr	4	165	160	1	4													165	160	1	4
4061999	Closed Projects – Sanitary	4	63	57		6													63	57		6
4063122	LI – Hwy #6 – 219m S to 509m N of Hwy #5	4	1,308	1,213		95													1,308	1,213		95
4061802	Borer's Creek Sanitary Trunk	4	2,787	2,703	69	15													2,787	2,703	69	15
4063465	LI – Barton St – 220m E of Winona Rd to 125m East	4	130	78		52													130	78		52
4061499	Preliminary Engineering – Sanitary	5	53			53													53			53
4061475	Cost Allocation – Finance	6	58			58													58			58
4061477	Cost Allocation – Legal	6	162			162													162			162
4061478	Cost Allocation – Roads Admin	6	883			883													883			883
4061479	Cost Allocation – Facilities Admin	6	7			7													7			7
4061476	Cost Allocation – Environmental Admin	6	412			412													412			412
4061904	Woodward WWTP – Screen & Clarifier	8	503	460		43													503	460		43
4061302	Woodward WWTP – Operational Improvements	8	202	123		79													202	123		79
4061312	Woodward WWTP – Replace Chlorine Evaporator	8	196	184		12													196	184		12
4061911	Woodward WWTP – Expansion Dewatering Process	8	5,128	5,018		110													5,128	5,018		110
4061125	Waterdown STP – Refurbishment	8	133	108		25													133	108		25
4061902	Woodward WWTP – Main Feeder Cable	8	300	161		139													300	161		139
4061461	WWTP Preliminary Treatment – Replace Bar Screens	8	447			447													447			447
4061225	Woodward WWTP Optimization – Facility Plan	8	206	173		33													206	173		33
4061409	Woodward WWTP/WTP Supervisory Control System (50%)	8	1,539	1,260		279													1,539	1,260		279
4061415	Woodward WWTP – Gas Compressor Replacement	8	121			121													121			121
4061471	WWTP – Retrofitting for Nitrification	8	400	200		200													400	200		200
4061202	Woodward WWTP – Operational Improvements	8	73	26		47													73	26		47
4061460	WWTP South Secondary Clarifiers	8	200			200													200			200

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Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4061319	Woodward WWTP – Replace Pumps – Pumphouse	8	30			30													30			30
4061326	Woodward WWTP – Computer Equipment Replacement	8	61			61													61			61
4061321	Woodward WWTP – Odour Control	8	20	4		16													20	4		16
4061402	Woodward WWTP – Operational Improvements	8	251			251													251			251
4061452	Dundas WWTP – Upgrade Electrical Transformer	8	31			31													31			31
4061327	Woodward WWTP – Major Equipment Replacement	8	207			207													207			207
4061606	Woodward WWTP – Rehab Gas System for New	8	1,719	1,704		15													1,719	1,704		15
4061455	Woodward WWTP – Replace Safety Railings	8	100			100													100			100
4061438	Generator Refurbish & Digester Gas Filtering	8	38			38													38			38
4061417	Woodward WWTP – Refurbish Final Clarifiers	8	79			79													79			79
4061435	Expansion of Primary Clarifiers	8	300			300													300			300
4061444	Woodward WWTP–Prim & Second Screen & Clarifier Refurb	8	175			175													175			175
4061009	Sewage Pump Station S–W5 Rockcliffe	9	2,175	1,128	863	184													2,175	1,128	863	184
4061454	Pumping Stn SH–5 Refurbishment – Old Dundas Rd	9	180			180													180			180
4061313	Sewage Pump Stn S–D6 Hillside Ave	9	450			450													450			450
4061325	Sewage Pumping Station S–H24 McCollum Rd	9	77	49	5	23													77	49	5	23
4061924	Pump Stn SH5 Overflow Old Dundas Rd	9	15	12		3													15	12		3
4061113	Sewage Pumping Stn SW7 – East Waterdown	9	2,319	2,284		35													2,319	2,284		35
4061462	Hamilton Harbour Water Quality Improvements	1					100			100									100			100
4061457	Major Rehabilitation – Sanitary	2	100			100	100			100									200			200
4061442	Unspecified Major Maintenance – Sanitary	2					100			100									100			100
4061301	Minor Improvements – Sanitary	2	300	226		74	96			96									396	226		170
4061470	Field Data Hardware	3	333			333	60			60									393			393
4061458	East 16th at South Bend – Dog Leg	3					16			16									16			16
4061603	Greenhill Ave Storage Treatment Basin (50%)	3	2,882	2,882			163			163									3,045	2,882		163
4061447	Gage Ave N – Beach Rd to Burlington	3	40			40	758			758									798			798
4061010	Iona Sanitary Trunk Sewer	3	3,901	1,986	1,552	363	899	441	368	90									4,800	2,427	1,920	453
4061306	Hwy #5 – W of Dennis to Dennis/W of Dennis to Hwy #6	4	200	21	119	60	1,490	835	428	227									1,690	856	547	287
4063442	LI – Blossom Lane – Upper James to 145m Westerly	4	91	65	2	24	5	5											96	70	2	24
4063444	LI – Upper James – Alderson Dr to City South Limit	4	104	59		45	12	12											116	71		45
4061110	Beach Blvd – Sanitary Sewers	4	4,200	2,887	263	1,050	1,873	1,071	156	646									6,073	3,958	419	1,696
4083242	LI – Rymal Rd E – 220m W of Glover to Glover (21%)	4	6	5		1	204	90	99	15									210	95	99	16
4061451	Chipman Ave / Ridge St Sewer Outlet	4					230	230											230	230		
4083141	LI – Chipman & Ridge (45%)	4	1			1	204	158	1	45									205	158	1	46
4061419	Ryckman; Springside; Lister; Allison; Bartlett	4					393	365		28									393	365		28

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Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
4063468	LI – Cherry Beach Rd & 1st, 2nd & 3rd Private Rds	4	100	36	4	60	872	618	16	238									972	654	20	298
4063421	LI – Hamilton St N; Centre Rd; Northlawn; Summit	4	770	234		536	50	50											820	284		536
4063445	LI – Glover Rd – Rymal to South Limit	4	2		1	1	402	245	82	75									404	245	83	76
4063467	LI – Lochside Dr – McCollum Rd	4	50	11	1	38	457	242	7	208									507	253	8	246
4063121	LI – Rockcliffe Survey	4	726	394		332	100	100											826	494		332
4063331	LI – Hwy #6 – Ham S Limit to Twenty	4	250	42		208	300	300											550	342		208
4063221	LI – Rockcliffe Survey Part 2	4	1,275	706		569	75	75											1,350	781		569
4063422	LI – Westview Cr – Northlawn Ave to Summit Dr	4	92	3		89	50	50											142	53		89
4061456	Mount Hope Urban Settlement Area	4					1,586	1,154	63	369									1,586	1,154	63	369
4061019	M.I.S.A. Demo Project #1	5	192	192			53	53											245	245		
4061020	M.I.S.A. Demo Project #2	5	85	85			169	169											254	254		
4061013	Asbestos Removal Program	5	461	331		130	231			231									692	331		361
4061416	Sewer Use Control Upgrade at Woodward Avenue	7					561			561									561			561
4061453	Inorganic/Wastewater Labs – Fume Hoods Upgrade	7	31			31	70			70									101			101
4061430	Brucedale Ave – East 41st St to Upper Ottawa St	1									80			80					80			80
4061424	Faircourt Dr – N/A Leg to Approx 54m E	3	2			2					52			52					54			54
4061427	James Mountain Rd from 55m N of Aberdeen	3									82			82					82			82
4061426	Felker Ave – Centennial Pkwy to Felker Cres	3	2			2					195			195					197			197
4061111	Battlefield San Trk Sewer – Queenston – King	4	190	136	11	43	400	199	41	160	1,362	684	133	545					1,952	1,019	185	748
4061137	Computer Based Real-time Control of Sewers (50%)	5	221	166		55	160	54		106	82			82					463	220		243
4061445	Mount Albion Rd-Mud St Freeway Crossings (2)	4													580			580	580			580
Various	1994 Work-in-Progress Carry-overs		(5,742)	(2,929)	(1,639)	(1,174)	5,742	2,929	1,639	1,174												
Various	Reduction to accommodate 1994 Carry-overs						(5,742)	(2,929)	(1,639)	(1,174)									(5,742)	(2,929)	(1,639)	(1,174)
	TOTAL		35,886	25,198	1,252	9,436	12,239	6,516	1,261	4,462	1,853	684	133	1,036	580			580	50,558	32,398	2,646	15,514

ENVIRONMENTAL SERVICES DEPARTMENT
1995 - 1999 CAPITAL BUDGET

Vision 2020 Statement

Storm Water Collection System

The Storm Water Collection System component of the Environmental Services Department 1995 -1999 Capital Budget supports the goals of Vision 2020 by promoting the following:

- the provision of a safe, reliable and efficient storm water collection system

- the provision of appropriate municipal services, within the City of Hamilton, in a time frame to accommodate desired development

- the provision of appropriate municipal services within the Regional Transportation Corridor for the promotion of an integrated sustainable transportation system

- the improvement of water resource quality through;
  - the support of the Hamilton Harbour Remedial Action Plan and the implementation of the Pollution Control Plan
  - the development and implementation of a Real Time Control System to optimize infrastructure operation effectiveness
  - the protection of recharge sources for both surface and ground-water resources
  - the protection of natural habitats
  - the preservation and enhancement of wetlands and streams within Regional watersheds
  - coordination and cooperation with stakeholder agencies
  - the promotion of sub-watershed planning

- review of probable ecological effects of proposed works and the commitment to naturalized storm-water management to improve infiltration rates and the prevention of ecological degradation

- the implementation of review processes that promote community involvement in the planning process when applicable

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

STORM SEWER PROGRAM (000's)

IN ACCORDANCE WITH COUNCIL GUIDELINES

TOTAL	1995	1996	1997	1998	1999	TOTAL
GROSS COST	13,925	10,801	11,537	8,016	7,755	52,034
REVENUE	3,348	3,400	4,191	2,362	3,656	16,957
DC CREDIT	643	249	10	5	96	1,003
NET COST	9,934	7,152	7,336	5,649	4,003	34,074

NEW PROJECT SUMMARY (inflated)

	1995	1996	1997	1998	1999	TOTAL
Gross	4,602	9,926	11,537	8,016	7,755	41,836
Revenues	1,367	3,331	4,191	2,362	3,656	14,907
DC Credit	12	249	10	5	96	372
Net	3,223	6,346	7,336	5,649	4,003	26,557

WORK–IN–PROGRESS PROJECT SUMMARY

	1995	1996	1997	1998	1999	TOTAL
Gross	9,323	875	0	0	0	10,198
Revenues	1,981	69	0	0	0	2,050
DC Credit	631	0	0	0	0	631
Net	6,711	806	0	0	0	7,517

STORM SEWERS

NEW PROJECTS

1995 – 1999 STORM CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

Printed as at 20-Jan-95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
4071505	ANNUAL – Local Improvements – Storm	4									2,497	1,777		720	1,000	700		300	1,000	700		300	4,497	3,177		1 320	1 A
4071575	ANNUAL – Cost Allocation – Finance	6	45	45			45	45			45	45			45	45			45	45			225	225			1
4073544	LI – Acadia Dr – 83m S of Butler Dr to 160m Southerly	4	45	37	8																		45	37	8		1 *
4071577	ANNUAL – Cost Allocation – Legal	6	10	10			10	10			10	10			10	10			10	10			50	50			1
4071532	Ottawa St – Brittania Ave to Beach Rd – Combined	2	405	38		367																	405	38		367	1 A
4071576	ANNUAL – Cost Allocation – Environmental Admin	6	281	281			281	281			281	281			281	281			281	281			1,405	1,405			1
4071578	ANNUAL – Cost Allocation – Roads Admin	6	777	777			777	777			777	777			777	777			777	777			3 885	3 885			1
4071579	ANNUAL – Cost Allocation – Facilities Admin	6	7	7			7	7			7	7			7	7			7	7			35	35			1
NEW	LI – West 5th St – 60m North of Rymal to 555m Northerly	4	92	80	4	8	646	593	16	37													738	673	20	45	1 A
NEW	LI – Springside Dr; Seneca Ave; Aldercrest Ave	4									845	500	4	341									845	500	4	341	1 A
4071717	Unspecified Projects Related to Storm Flooding	3									908			908	527			527	333			333	1,768			1 768	1
NEW	LI – Upp Wellington – 380m N of Stonechurch to 275m N'ly	4													18	5	1	12	177	138	3	36	195	143	4	48	1 A
4071502	ANNUAL – Private Drain Replacements	2	182			182	182			182	182			182	182			182	182			182	910			910	2
4071501	ANNUAL – Minor Improvements – Storm	2	694			694	764			764	636			636	636			636	300			300	3,030			3 030	2 A
4071509	ANNUAL – Rehabilitation – Unspecified and No Dig Repairs	1	782			782	442			442	782			782	533			533	309			309	2,848			2 848	2 A
4071533	King William St – West Ave to Jarvis St	3	229	29		200																	229	29		200	2 A
4071524	East 17th – Howe to Vickers/Vickers E.16th and E 17th	3	245			245																	245			245	2 A
4071518	King St W – Newton to Paisley – Sewer Lining	1	39			39																	39			39	2 A
4071530	Dunsmure Rd – Edgemont St to Huxley Ave	3	50			50	655	294		361													705	294		411	2
4071521	Hollywood / Norfolk – Glenmount to Sanders – Lining	1					96			96													96			96	2 A
4071622	Melbourne; Dundurn; Fanning; Poulette; Mel; Blanchard	3					533	168		365													533	168		365	2 A
4071625	Brittania – Ivon to Adeline	3					128	13		115													128	13		115	2 A
4071626	Broadway – Main to Sussex	3					139	17		122													139	17		122	2
4071617	Steven St – King to Cannon – Sewer Lining	1					8			8	84			84									92			92	2 A
4071630	Normanhurst – Roxborough to Approx 300m South	3					307	25		282													307	25		282	2
4071618	Spruceside – Aberdeen to Glenfern – Sewer Lining	1					6			6	42			42									48			48	2 A
4071624	Brucedale – Upper Ottawa to Sherwood Rise – Sewer Lining	1					3			3	36			36									39			39	2 A
4071615	Tuxedo N – Dunsmure to Approx 93m S – Sewer Lining	1					3			3	30			30									33			33	2 A
4071616	Fieldway – Cardinal to E End of St – Sewer Lining	1					60			60													60			60	2 A
4071623	James S – Beckley to James Mtn Road	1					23			23	276	165		111									299	165		134	2 A
4071526	E 43rd – Fennell to 7th / 7th – E 43rd to E 42nd (COIW–S)	3					500	40		460													500	40		460	2
4071719	Crockett – E 36th – E 37th / E 37th Crockett to N	3					88			88													88			88	2
4071631	East 42nd – 7th to Mohawk (COIW–S)	3					874	130		744													874	130		744	2 A
4071621	Maplewood – Gage to Blake/Lorne – Cumberland (COIW–S)	3									213			213	1,065			1,065					1,278			1 278	2 A
NEW	Shaw St – Victoria Ave N to Emerald N – Lining	1									7			7	68			68					75			75	2 A
NEW	East 14th – Queensdale to 80m S;Brucesdale to 82m N–Ling	1									30			30									30			30	2 A
NEW	East 32nd St – Crockett St to Munn St – Lining	1									39			39									39			39	2 A
NEW	Cheryl Ave – East 31st St to East 32nd St	3									86			86									86			86	2
4071629	Selkirk – Roxborough to Approx 300m South (COIW–S)	3									242	40		202									242	40		202	2 A
NEW	East 33rd St – Crockett St to Munn St – Lining	1									26			26									26			26	2 A
NEW	East 31st St – Cheryl Ave to Approx 180m Southerly	3									173			173									173			173	2
4071716	Clifford Ave – South End of St to Royal Ave (COIW–S)	3									75			75	267			267					342			342	2 A

1995 – 1999 STORM CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

Printed as at 20-Jan-95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
NEW	East 34th St Crockett St to Munn St – Lining	1									39			39									39			39	2 A
NEW	Fairfield Ave – Roxborough to Approx 100m S of Dunsmure	3									380	165		215									380	165		215	2
NEW	Hillyard St – Brant St to Monroe – Lining	1									5			5	43			43					48			48	2 A
NEW	East St – Webber to TH&B and Webber – East to Victoria	3									220			220									220			220	2
NEW	East 31st St – Aprx 70m S of Crockett to 70m N of Munn–Lng	1									13			13									13			13	2 A
4071632	Pemberton – East 42nd to Upper Gage	3									61	10		51									61	10		51	2
NEW	East 27th St – Queensdale to Approx 80m S of Brucedale	3									548			548									548			548	2
NEW	Balsam Ave – Cumberland to Maplewood – Lining	1													56			56					56			56	2 A
NEW	East 34th – Munn to 137m north of Crockett	3													38			38	213			213	251			251	2
NEW	Dunsmure Rd – Edgemont to London/Dunsmure southerly	3													179			179					179			179	2
NEW	Huxley Ave – Monterey Ave to South End – Lining	1													50			50					50			50	2 A
NEW	East 28th St – Queensdale to Approx 80m S of Brucedale	3													569	162		407					569	162		407	2
NEW	East 26th St – Queensdale Ave to Fennell Ave	3													696	161		535					696	161		535	2
NEW	Morley – Parkdale to App. 160m East	3													20			20	110			110	130			130	2
NEW	Sanders Boulevard – Westbourne to 55m West – Lining	1																	23			23	23			23	2 A
4071721	Grant – Main to Approx 240m South	3																	200			200	200			200	2
NEW	Maple St – Ottawa St to London St/Maple St southerly	3																	300	158		142	300	158		142	2
NEW	London St – King St to Approx 50m N of Lawrence	3																	424	159		265	424	159		265	2
NEW	Binkley Road – Sanders to 58m South – Lining	1																	16			16	16			16	2 A
NEW	Graham Ave – Monterey to Central – Lining	1																	63			63	63			63	2 A
4071599	ANNUAL – Preliminary Engineering – Storm	5	213			213	365			365	100			100	100			100	100			100	878			878	3
4071523	Purchase Easements Over Existing Storm Sewers	3	182			182	273			273													455			455	3 A
4071517	Fay Ave at Organ Cres – Dog Leg	3	16			16																	16			16	3 A
4071520	Charles St – Hurst Place to 80m S	3	73	11		62																	73	11		62	3 A
4071536	Endfield Ave – Kingslea Ave to 200m Westerly	3	145	25		120																	145	25		120	3
4071537	Fairview Ave – Cannon St to 75m S of Highland Ave	3					142	22		120													142	22		120	3
4073541	LI – Acadia Dr – Upper Sherman Ave – Easement	4					536	354	83	99													536	354	83	99	3 A
4071539	Mohawk Rd – Dodson St to Upper Wellington St	3					150	63		87													150	63		87	3
4071634	Grandfield St – Kingslea Ave to 200m Westerly	3					148	21		127													148	21		127	3 A
4071633	Burfield Ave – Kingslea Ave to 200m Westerly	3					148	21		127													148	21		127	3 A
4071538	East 38th St – Queensdale Ave to 80m Northerly	3					97	12		85													97	12		85	3
4073543	LI – Pritchard – 60m N of Rymal to 306m Northerly	4					375	212	140	23													375	212	140	23	3 A
4071516	Emerson – Main to Sussex	3					177	23		154													177	23		154	3
4071535	East 21st St – MacLennan St to 244m Southerly	3					353	36		317													353	36		317	3 A
4071723	East 22nd – Queensdale to Brucedale	3					200	38		162													200	38		162	3
4071718	District Yard – Land Purchase	2									55			55									55			55	3 A
NEW	St Joseph's Dr – Mountwood to John St & John St Easterly	3									320			320									320			320	3 A
NEW	Hughson St – Main to King	3									68	8		60									68	8		60	3
4071527	LI – Rymal Rd W – Upper Paradise to West City Limits	4									185	164	5	16									185	164	5	16	3 A
NEW	Murray St – Park St N to MacNab	3													121	17		104					121	17		104	3 A
NEW	LI – Rymal Rd E – Upper Sherman Ave to 460m West	4													33	10	3	20	336	229	14	93	369	239	17	113	3 A
NEW	LI – Rymal Rd E – Upper Wellington to Republic	4													40	7	1	32	390	266	7	117	430	273	8	149	3 A

1995 – 1999 STORM CAPITAL BUDGET NEW PROJECTS – SCHEDULE "A"

Printed as at 20-Jan-95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
NEW	LI – Rymal Rd E – Glover to Trinity Church Rd	4																	997	541	63	393	997	541	63	393	3 A
NEW	9th Ave – East 42nd to Upper Gage	3									49			49									49			49	4
NEW	Sterling – Storage Tank	3									500			500									500			500	4
NEW	Herkimer – MacDonald to Dundurn	3													45			45	255			255	300			300	4
NEW	East 31st – Munn to 137m north of Crockett (design only)	3																	38			38	38			38	4
NEW	Geographic Information System Interface	3																	100			100	100			100	4
NEW	East 33rd – Munn to 137m north of Crockett (design only)	3																	38			38	38			38	4
	Total Before Inflation		4,512	1,340	12	3,160	9,541	3,202	239	6,100	10,872	3,949	9	6,914	7,406	2,182	5	5,219	7,024	3,311	87	3,626	39,355	13,984	352	25,019	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%					
	TOTAL		4,602	1,367	12	3,223	9,926	3,331	249	6,346	11,537	4,191	10	7,337	8,016	2,362	5	5,649	7,755	3,656	96	4,003	41,838	14,906	372	26,559	

STORM SEWERS

WORK-IN-PROGRESS PROJECTS

Printed as at 24-Jan-95

Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST
4071421	East Bend Ave S – Dunsmure Intersection By-Pass	2	4			4									4			4
4071323	Upper James St – Fennell Ave (Cross-Connection)	2	22			22									22			22
4071301	Minor Improvements – 1993	2	209	170		39									209	170		39
4071445	Main St – Walter Ave to Jefferson Ave; Jefferson	3	113	26		87									113	26		87
4071447	Haddon Ave S – Dalewood to Approx 220m East	3	154			154									154			154
4071448	Mayflower Ave – Gage Ave to 190m Easterly	3	84			84									84			84
4071322	Dundurn St N – King St W to Lochearne St	3	272	96		176									272	96		176
4071449	Hansen System Enhancement	3	130			130									130			130
4071212	Hoover Crescent – Welbourne Dr	3	488	461		27									488	461		27
4071314	Tragina Ave – Monterey Ave to Main St	3	438	408		30									438	408		30
4071315	McElroy, Dodson, South Bend, Seven Oaks	3	1,072	1,047		25									1,072	1,047		25
4071216	Hoover Cres – Andrew Court to Dodson St	3	132	90		42									132	90		42
4071803	Catherine St Combined Sewer Overflow	3	206			206									206			206
4073443	LI – Stonechurch Rd W – West 5th to Upper James	4	3			3									3			3
4071999	Closed Projects – Storm	4	45	33		12									45	33		12
4071499	Preliminary Engineering – Storm	5	41			41									41			41
4071476	Cost Allocation – Environmental Admin	6	275			275									275			275
4071477	Cost Allocation – Legal	6	10			10									10			10
4071478	Cost Allocation – Roads Admin	6	784			784									784			784
4071475	Cost Allocation – Finance	6	46			46									46			46
4071479	Cost Allocation – Facilities Admin	6	6			6									6			6
4071121	Aux Power Supply – Kenilworth / McAnalty	1	51	51			81			81					132	51		81
4071443	Major Rehabilitation – Storm Sewers	1	100			100	145			145					245			245
4071401	Minor Improvements – Storm	2	180			180	175			175					355			355
4071416	Homewood Ave – Sewer System Improvements	2	50	25		25	13			13					63	25		38
4071444	East 16th St at South Bend Road – Dogleg	2					15			15					15			15
4071418	James Mntn Rd – 40m N to 55m S of Aberdeen	2									668	69		599	668	69		599
4071402	Private Drain Replacements	2	35			35	10			10					45			45
4071417	Herkimer – Dundurn to Approx 153m E	3	180	120		60	35			35					215	120		95
4071446	East 15th St – Howe Ave to Fennell – Storm Outlet	3					364			364					364			364
4071603	Greenhill Ave Storage Treatment Basin (50%)	3	2,882	2,882			163			163					3,045	2,882		163
4071422	Monterey Ave; Barons Ave; Weir ST S; Auburn Ave	3					364			364					364			364
4071442	East 35th St – Munn to 90m N of Crockett	3					232			232					232			232

Printed as at 24-Jan-95

Centre	Description	Cat	PRE 1995 Gross Cost	PRE 1995 Revenue	PRE 1995 DC Credit	PRE 1995 Net Cost	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST
4071426	Brucedale Ave – East 41st St to Upper Ottawa St	3					73			73					73			73
4071250	James Street CSO Storage	3	987	961		26	35			35					1,022	961		61
4071430	East 18th; Inverness; Upper Wentworth	3	57	25		32	1,359			1,359					1,416	25		1,391
4071120	Waterfront Park Area – Pollution Abatement (50%)	3	5,200	5,076	13	111	45	5	4	36					5,245	5,081	17	147
4071432	East 36th – Queensdale to 90m N of Crockett	3					386			386					386			386
4071419	Queensdale – Upper Gage to East 36th	3					1,260	350		910					1,260	350		910
4071921	Gage Ave Storm Trunk Sewer Outlet (Enhanced)	3	60	60			63	63							123	123		
4071431	Munn – East 36th to East 31st Inc. Stubbing	3					640			640					640			640
4071423	Barnesdale N; Cannon E; Rosemnt N; Somerset-B-85E	3					322			322					322			322
4071420	Ryckman; Springside Dr; Lister; Allison; Bartlett	4					954	405	6	543					954	405	6	543
4083242	LI – Rymal E – 220m W of Glover to Glover	4	22	22			762	236	470	56					784	258	470	56
4073442	LI – Blossom Lane – Upper James to 145m Westerly	4	134	80	3	51	5	1		4					139	81	3	55
4071440	Chipman Ave / Ridge St Sewer Outlet	4					421	421							421	421		
4083141	LI – Chipman – E End to Up James/Ridge-35m to Chip	4	1	1			250	163	2	85					251	164	2	85
4073445	LI – Glover Road – Rymal Rd to South Limit	4					551	268	149	134					551	268	149	134
4073444	LI – Upper James – Alderson to City South Limit	4	125	73		52	15	15							140	88		52
4071129	Ferguson – King William to 91m S	3									103			103	103			103
4071348	Hamilton Harbour Water Quality Improvement	3	218	177		41	425			425	22			22	665	177		488
4071137	Computer Based Real-Time Control of Sewers	5	221	166		55	160	54		106	82			82	463	220		243
Various	1994 Work-in-Progress Carry-overs		(346)	(184)	-3	(159)	346	184	3	159								
Various	Reduction to accommodate 1994 Carry-overs						(346)	(184)	(3)	(159)					(346)	(184)	(3)	(159)
TOTAL			**14,691**	**11,866**	**13**	**2,812**	**9,323**	**1,981**	**631**	**6,711**	**875**	**69**		**806**	**24,889**	**13,916**	**644**	**10,329**

ENVIRONMENTAL SERVICES DEPARTMENT
1995 - 1999 CAPITAL BUDGET

Vision 2020 Statement

Waste Management Division

The Waste Management component of the Environmental Services Department 1995-1999 Capital Budget supports the goals of Vision 2020 by promoting the following:

- Management of Landfill sites, under Regional jurisdiction so as to protect our citizens and the natural environment by minimizing any adverse impacts of the sites.

- Providing incentives through the supply of recycling containers to help increase diversion from landfill which will increase the life of the existing landfill sites and reduce the need for new resources.

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

WASTE MANAGEMENT PROGRAM (000's)

IN ACCORDANCE WITH COUNCIL GUIDELINES

TOTAL	1995	1996	1997	1998	1999	TOTAL
GROSS COST	1,366	1,667	1,791	695	709	6,228
REVENUE	547	315	322	328	335	1,847
DC CREDIT	0	0	0	0	0	0
NET COST	819	1,352	1,469	367	374	4,381

NEW PROJECT SUMMARY (inflated)

	1995	1996	1997	1998	1999	TOTAL
Gross	797	1,547	1,791	695	709	5,539
Revenues	309	315	322	328	335	1,609
DC Credit	0	0	0	0	0	0
Net	488	1,232	1,469	367	374	3,930

WORK–IN–PROGRESS PROJECT SUMMARY

	1995	1996	1997	1998	1999	TOTAL
Gross	569	120	0	0	0	689
Revenues	238	0	0	0	0	238
DC Credit	0	0	0	0	0	0
Net	331	120	0	0	0	451

WASTE MANAGEMENT

NEW PROJECTS

NEW PROJECTS

Centre Description	EXPENDITURES 1995 Gross	1995 Revenue	1995 Net	1996 Gross	1996 Revenue	1996 Net	1997 Gross	1997 Revenue	1997 Net	1998 Gross	1998 Revenue	1998 Net	1999 Gross	1999 Revenue	1999 Net	TOTAL Gross	TOTAL Revenue	TOTAL Net	Rating
4031401 UPPER OTTAWA NORTH SLOPE							81		81							81		81	1
4031701 UPPER OTTAWA–LEACH. COLLECTION, MONITORING WELLS & FLOW–METER	140		140	593		593	10		10							743		743	1
4031805 SLOPE DRAINAGE AND FRENCH DRAINS				147		147										147		147	1
4031502 BLUE BOX – INITIAL PURCHASE (2,500 BOXES)	10	3	7	10	3	7	10	3	7	10	3	7	10	3	7	50	15	35	2A
4031501 BACKYARD COMPOSTING PROGRAM (10,000 UNITS)	300	300		300	300		300	300		300	300		300	300		1,500	1,500		2A
4031575 COST ALLOCATION – FINANCE	11		11	11		11	11		11	11		11	11		11	55		55	N/A
4031576 COST ALLOCATION – ENVIRONMENTAL ADMINISTRATION	261		261	261		261	261		261	261		261	261		261	1,305		1,305	N/A
4031577 COST ALLOCATION – LEGAL SERVICES	56		56	56		56	56		56	56		56	56		56	280		280	N/A
4031578 COST ALLOCATION – ROADS ADMIN	2.5		2.5	2.5		2.5	2.5		2.5	2.5		2.5	2.5		2.5	13		13	N/A
4031579 COST ALLOCATION – FACILITIES ADMINISTRATION	1.3		1.3	1.3		1.3	1.3		1.3	1.3		1.3	1.3		1.3	7		7	N/A
4031600 LANDFILL GAS RECOVERY–GLANBROOK LANDFILL SITE				105		105	955		955							1,060		1,060	2
Total before inflation	782	303	479	1,487	303	1,184	1,688	303	1,385	642	303	339	642	303	339	5,240	1,515	3,725	
Inflation factor (@ 2%)	102.00%	102.00%	102.00%	104.04%	104.04%	104.04%	106.12%	106.12%	106.12%	108.24%	108.24%	108.24%	110.41%	110.41%	110.41%				
TOTAL AT PLANNED PROPOSAL OF 2.0% INFLATION	797	309	488	1,547	315	1,232	1,791	322	1,470	695	328	367	709	335	374	5,539	1,608	3,930	

Priority Ratings:

1) Hazards impacting on members of the public, Regional employees, agencies/services, etc.

2) Prevention of significant deterioration of assets associated with the present Waste Management System and improve conditions to avert an adverse effect on the natural environment.

A) In order to maintain the existing service level.

WASTE MANAGEMENT

WORK-IN-PROGRESS PROJECTS

ENVIRONMENTAL SERVICES DEPARTMENT – 1995 – 1999 WASTE MANAGEMENT CAPITAL BUDGET

WORKS IN PROGRESS (Appropriations as at October 14, 1994)

EXPENDITURES

Centre Description	PRE 1995 Gross	PRE 1995 Revenue	PRE 1995 Net	1995 Gross	1995 Revenue	1995 Net	1996 Gross	1996 Revenue	1996 Net	TOTAL Gross	TOTAL Revenue	TOTAL Net
4031005 STEETLEY IND – ASSESSMENT BOARD HEARING	1,940	1,221	719							1,940	1,221	719
4031201 PREP FOR EXCAVATION STG3 GLANBROOK LANDFILL	46	45	1	10		10				56	45	11
4031300 WASTE MANAGEMENT MASTER PLAN	51	2	49	177		177				228	2	226
4031301 SWARU CAGES	40		40							40		40
4031375 COST ALLOCATION – FINANCE	11		11							11		11
4031376 COST ALLOCATION – ADMINISTRATION	257		257							257		257
4031377 COST ALLOCATION – LEGAL SERVICES	57		57							57		57
4031400 COMPREHENSIVE MUNICIPAL POLLUTION PREVENTION PRG	102	102		382	238	144	26		26	510	340	170
4031402 ANNUAL RECYCL SYSTEM IMPROVEMENTS – BLUE BOXES	20	7	13							20	7	13
4031403 RECYCLING SYSTEM IMPROVEMENTS – VEHICLES	663	28	635				94		94	757	28	729
4031404 ANNUAL BACKYARD COMPOSTING PROGRAM	298	298								298	298	
4031405 SWARU SPRAY TOWERS	7		7							7		7
	3,492	1,705	1,789	569	238	331	120		120	4,161	1,941	2,240

DETAIL FOR PRE 1995

	Pre 1994 Gross	Pre 1994 Rev	Pre 1994 Net	1994 Gross	1994 Rev	1994 Net
4031005 STEETLEY IND – ASSESSMENT BOARD HEARING	1,201	1,201		739	20	719
4031201 PREP FOR EXCAVATION STG3 GLANBROOK LANDFILL	45	45		1		1
4031300 WASTE MANAGEMENT MASTER PLAN	6	2	4	45		45
4031301 SWARU CAGES				40		40
4031375 COST ALLOCATION – FINANCE				11		11
4031376 COST ALLOCATION – ADMINISTRATION				257		257
4031377 COST ALLOCATION – LEGAL SERVICES				57		57
4031400 COMPREHENSIVE MUNICIPAL POLLUTION PREVENTION PRG				102	102	
4031402 RECYCLING SYSTEM IMPROVEMENTS – BLUE BOXES				20	7 0	13.0
4031403 RECYCLING SYSTEM IMPROVEMENTS – VEHICLES				663	28	635
4031404 BACKYARD COMPOSTING PROGRAM				298	298	
4031405 SWARU SPRAY TOWERS				7		7
Totals	1,252	1,248	4	2,240	455	1,785

Total Pre 1995	3,492	1,703	1,789

ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999 CAPITAL BUDGET

SUPPLEMENTARY PROJECTS

SCHEDULE "B"

PROGRAM CHANGES TO MEET COUNCIL GUIDELINES

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

PROGRAM CHANGES

TO MEET COUNCIL GUIDELINES

SCHEDULE "B"

TOTAL	1995	1996	1997	1998	1999	TOTAL
Gross	(22,102)	1,364	(569)	(36,777)	(25,417)	(83,501)
Revenues	(4,735)	2,078	1,313	(2,647)	(1,231)	(5,222)
DC Credit	(268)	247	167	(249)	0	(103)
Net	(17,099)	(961)	(2,049)	(33,881)	(24,186)	(78,176)

WATERWORKS	1995	1996	1997	1998	1999	TOTAL
Gross	(3,278)	400	1,301	(3,665)	(206)	(5,448)
Revenues	(393)	210	550	(1,021)	(237)	(891)
DC Credit	0	0	162	(249)	0	(87)
Net	(2,885)	190	589	(2,395)	31	(4,470)

SANITARY SEWERS	1995	1996	1997	1998	1999	TOTAL
Gross Cost	(9,746)	1,893	(267)	(876)	(1,166)	(10,162)
Revenue	(1,722)	1,215	523	0	(442)	(426)
DC Credit	(171)	161	1	0	0	(9)
Net Cost	(7,853)	517	(791)	(876)	(724)	(9,727)

STORM SEWER	1995	1996	1997	1998	1999	TOTAL
Gross Cost	(9,078)	(929)	(1,603)	(32,236)	(24,045)	(67,891)
Revenue	(2,620)	653	240	(1,626)	(552)	(3,905)
DC Credit	(97)	86	4	0	0	(7)
Net Cost	(6,361)	(1,668)	(1,847)	(30,610)	(23,493)	(63,979)

Printed as at 03-Feb-95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST	Type of Change	Rating
WATERWORKS PROGRAM – NEW PROJECTS																												
4051658	East 21st – MacLennan to Franklin – w/m	2					210	45		165					(210)	(45)		(165)									Deferral	3 A
4051482	Federal St – Grays Rd to Green – w/m	2	(525)	(125)		(400)	525	125		400																	Deferral	3
4051535	East 42nd – Seventh to Mohawk – w/m	2					542	109		433	(542)	(109)		(433)													Deferral	3 A
4051454	Cedardale Ave – Grays Rd to Green Road w/m	3					(517)	(125)		(392)	517	125		392													Deferral	3
4051736	Melbourne – Dundurn to Locke – w/m	2					309	48		261	(309)	(48)		(261)													Deferral	3 A
4051682	Griffin & Union – Main to Mill – w/m	3									190			190	(190)			(190)									Deferral	3
new	Olympic Dr – King St to n/leg Hopkins Ct trunk w/m	3									1,279	550	153	576	(1,279)	(550)	(153)	(576)									Deferral	5 A
4051533	Replacements/Upgrades w/Local Municip Roads	2	(108)			(108)	(600)			(600)	91			91	(363)			(363)	1,027			1,027	47			47	Deferral	3
4051720	Victoria – Burton to CNR Track – w/m	3																	(207)	(52)		(155)	(207)	(52)		(155)	Deletion	3
4051649	Old Dundas Rd – Wilson to Montgomery – w/m	2																	(361)	(100)		(261)	(361)	(100)		(261)	Deletion	3
4051735	Norwich – Hwy #8 to Crompton Way – w/m	2																	(267)	(63)		(204)	(267)	(63)		(204)	Deletion	3
4051534	East 24th – Fennell to 310 m south w/m	3	(305)	(45)		(260)																	(305)	(45)		(260)	Deletion	3
4051421	Wise Cres – Grenadier Dr to Grenadier Dr – w/m	2	(409)	(94)		(315)																	(409)	(94)		(315)	Deletion	3
4051530	East 17th – Fennell to Howe – w/m	2	(227)	(39)		(188)																	(227)	(39)		(188)	Deletion	3
4051536	Ferrara – s/leg Wise Cres to n/leg Wise Cres – w/m	2	(233)	(45)		(188)																	(233)	(45)		(188)	Deletion	3
4051531	East 23rd – Fennell to approx House 373 – w/m	2	(187)	(37)		(150)																	(187)	(37)		(150)	Deletion	3
new	Maplewood – Prospect to Blake w/m (COIW – S)	3													(444)			(444)					(444)			(444)	Deletion	3 A
new	Geographic Information System Interface	3																	(200)			(200)	(200)			(200)	Deletion	4
new	Lewis/N Service/Campview – w/m	4																	(155)			(155)	(155)			(155)	Deletion	4
new	Kent St. – Glenfern to Amelia – w/m	4																	(53)			(53)	(53)			(53)	Deletion	4
new	Bay – Aberdeen/Inglewood/Undercliffe – w/m	3																	(136)			(136)	(136)			(136)	Deletion	4
new	S Service Rd of QEW – Seaman to Fruitland Rd – w/m	4																	(147)			(147)	(147)			(147)	Deletion	4
new	P.S. W – H18 Ancaster, add'l pump & controls	9													(400)	(219)	(41)	(140)					(400)	(219)	(41)	(140)	Deletion	5
new	Pumping Stn W – H16 – new pump & controls	9													(300)	(129)	(36)	(135)					(300)	(129)	(36)	(135)	Deletion	5
4051508	ANNUAL – Minor Improvements – Waterworks	2	(29)			(29)																	(29)			(29)	Reduction	1
4051502	ANNUAL – Watermain Cleaning and Lining	1	(372)			(372)	(325)			(325)					(200)			(200)	312			312	(585)			(585)	Reduction	2
	Total Before Inflation		(2,395)	(385)		(2,010)	144	202		(58)	1,226	518	153	555	(3,386)	(943)	(230)	(2,213)	(187)	(215)		28	(4,598)	(823)	(77)	(3,696)		
	Inflation Factor		102%	102%	102%	102%	104%	104%	104%	104%	106%	106%	106%	106%	108%	108%	108%	108%	110%	110%	110%	110%						
	TOTAL		(2,443)	(393)		(2,050)	150	210		(60)	1,301	550	162	589	(3,665)	(1,021)	(249)	(2,395)	(206)	(237)		31	(4,864)	(891)	(87)	(3,886)		
WATERWORKS PROGRAM – WIP PROJECTS																												
PLANT	To meet 1995 PUMC Plant Allocation (list attached)	8	(590)			(590)																	(590)			(590)	Deletion	N/A
	TOTAL		(590)			(590)																	(590)			(590)		
WATERWORKS PROGRAM – ENHANCEMENTS																												
enhance	Baseline Rd – Winona to N. Service – w/m replacement	3	(240)			(240)	240			240																	Deferral	3 A
	Total Before Inflation		(240)			(240)	240			240																		
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%						
	TOTAL		(245)			(245)	250			250													5			5		
	TOTAL WATERWORKS PROGRAM		(3,278)	(393)		(2,885)	400	210		189	1,301	550	162	589	(3,665)	(1,021)	(249)	(2,395)	(206)	(237)		31	(5,449)	(891)	(87)	(4,471)		

Printed as at 03–Feb–95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST	Type of Change	Rating
SANITARY SEWER PROGRAM – NEW PROJECTS																												
4073441	L.I. – Springside Dr; Seneca Ave; Aldercrest Ave	4	(622)	(493)	(1)	(128)					622	493	1	128													Deferral	3 A
4061624	Fieldway Dr – Cardinal to E End – Lining	1					54			54	(54)			(54)													Deferral	2 A
4061529	Hollywood St / Norfolk St – Glenmount to Sanders – Lining	1	(9)			(9)	9			9																	Deferral	2 A
NEW	LI – Windermere Road and Shippee Ave	4	(36)	(16)	(2)	(18)	36	16	2	18																	Deferral	2
NEW	LI – Trillium Ave & Lewis Rd – Trillium to S. Service Rd	4	(48)	(17)	(2)	(29)	48	17	2	29																	Deferral	2
NEW	LI – Falcon Road – Fifty Road to West End	4	(12)	(8)	(1)	(3)	12	8	1	3																	Deferral	2
4061533	Mountain Ave / Gemma Court – Sewer Rehabilitation	2	(23)			(23)	23			23																	Deferral	2
4063561	LI – Baseline – 80m W of East to 110m E of Creanona	4	(278)	(261)	(3)	(14)	278	261	3	14																	Deferral	3 A
4061521	Purchase Easements over Various Existing Sewers	3	(106)			(106)	106			106																	Deferral	3 A
4063541	LI – Acadia Dr – Upper Sherman Ave – Easement	4	(257)	(207)	(21)	(29)	257	208	19	30														1	(2)	1	Deferral	3 A
4061505	ANNUAL – Local Improvement – Sanitary	4																	(600)	(400)		(200)	(600)	(400)		(200)	Reduction	1 A
4061509	ANNUAL – Rehabilitation – Unspecified and No Dig Repairs	1	(586)			(586)	(397)			(397)	(436)			(436)	(525)			(525)	(256)			(256)	(2 200)			(2 200)	Reduction	2 A
4061501	ANNUAL – Minor Improvements – Sanitary	2	(407)			(407)	(374)			(374)	(384)			(384)	(284)			(284)	(200)			(200)	(1 649)			(1 649)	Reduction	2 A
4061508	ANNUAL – Unspecified Major Maintenance – Sanitary	2	(100)			(100)																	(100)			(100)	Reduction	2 A
	Total Before Inflation		(2,484)	(1,002)	(30)	(1,452)	52	510	27	(485)	(252)	493	1	(746)	(809)			(809)	(1,056)	(400)		(656)	(4,549)	(399)	(2)	(4,148)		
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%						
	TOTAL		(2,534)	(1,022)	(31)	(1,481)	54	531	28	(505)	(267)	523	1	(792)	(876)			(876)	(1,166)	(442)		(724)	(4,789)	(410)	(1)	(4,377)		
SANITARY SEWER PROGRAM – WIP PROJECTS																												
4061430	Brucedale Ave – East 41st St to Upper Ottawa St	1	(80)			(80)	80			80																	Deferral	1
4061924	Pump Stn SH5 Overflow Old Dundas Rd	9	(146)			(146)	150			150													4			4	Deferral	2
4061111	Battlefield San Trk Sewer – Queenston – King	4	(1,362)	(677)	(140)	(545)	1,362	684	133	545														7	(7)		Deferral	2
4061426	Felker Ave – Centennial Pkwy to Felker Cres	3	(194)			(194)	195			195													1			1	Deferral	3
4061424	Faircourt Dr – N/A Leg to Approx 54m E	3	(51)			(51)	52			52													1			1	Deferral	3
	PLANT To meet 1995 PUMC Plant Allocation (list attached)	8	(5,379)	(23)		(5,356)																	(5,379)	(23)		(5,356)	Deletions/Reductions	N/A
	TOTAL		(7,212)	(700)	(140)	(6,372)	1,839	684	133	1,022													(5,373)	(16)	(7)	(5,350)		
	TOTAL SANITARY SEWER PROGRAM		(9,746)	(1,722)	(171)	(7,853)	1,893	1,215	161	517	(267)	523	1	(792)	(876)			(876)	(1,166)	(442)		(724)	(10,162)	(426)	(8)	(9,727)		

ENVIRONMENTAL SERVICES DEPARTMENT 1995 – 1999 CAPITAL BUDGET PLANT REDUCTIONS AND DELETIONS

Printed as at
03–Feb–95

Centre	Description	Cat	1995 Gross Cost	Revenue	DC Credit	Net Cost	Type of Change
	PLANT – WATERWORKS						
4051807	Additions to Water Treatment Plant	8	(590)			(590)	Deletion
	TOTAL – WATERWORKS		**(590)**			**(590)**	
	PLANT – SANITARY						
4061417	Woodward WWTP – Refurbish Final Clarifiers	8	(506)			(506)	Deletion
4061429	Woodward WWTP – Replace Central Heating System	8	(817)			(817)	Deletion
4061435	Expansion of Primary Clarifiers	8	(3,000)			(3,000)	Reduction
4061437	Dundas WWTP – Refurbish Digester & Complex	8	(242)			(242)	Deletion
4061438	Generator Refurb & Digester Gas Filtering	8	(370)			(370)	Deletion
4061444	Primary & Secondary Screen & Clarifier Refurbishment	8	(259)			(259)	Deletion
4061517	Woodward WWTP – Upgrade Plant Lighting System	8	(82)	(23)		(59)	Deletion
4061568	Woodward WWTP – S.C.A.D.A System	8	(103)			(103)	Deletion
	TOTAL – SANITARY		**(5,379)**	**(23)**		**(5,356)**	
	TOTAL PLANT REDUCTIONS MADE TO MEET 1995 PUMC PLANT ALLOCATION		**(5,969)**	**(23)**		**(5,946)**	

Printed as at 23–Jan–95

Centre	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST	Type of Change	Rating
STORM SEWER PROGRAM – NEW PROJECTS																												
4071616	Fieldway – Cardinal to E End of St – Sewer Lining	1					54			54	(54)			(54)														
4071630	Normanhurst – Roxborough to Approx 300m South	3					269	25		244	(269)	(25)		(244)													Acceleration	2 A
NEW	East 27th St – Queensdale to Approx 80m S of Brucedale	3									548			548	(548)			(548)									Acceleration	2
4071622	Melbourne, Dundurn, Fanning; Poulette; Mel. Blanchard	3					481			481	(481)			(481)													Acceleration	2
4071719	Crockett – E 36th – E 37th / E 37th Crockett to N	3					88			88	(88)			(88)													Acceleration	2 A
4071631	East 42nd – 7th to Mohawk (COIW–S)	3					874	130		744	(874)	(130)		(744)													Acceleration	2
4071723	East 22nd – Queensdale to Brucedale	3					200	38		162					(200)		(38)	(162)									Acceleration	2 A
4071535	East 21st St – MacLennan St to 244m Southerly	3					353	36		317					(353)		(36)	(317)									Acceleration	3
4071516	Emerson – Main to Sussex	3					177	23		154					(177)		(23)	(154)									Acceleration	3 A
4071521	Hollywood / Norfolk – Glenmount to Sanders – Lining	1	(9)			(9)	9			9																	Acceleration	3
4071721	Grant – Main to Approx 240m South	3									(30)			(30)	(170)			(170)	200			200					Deferral	2 A
4071537	Fairview Ave – Cannon St to 75m S of Highland Ave	3	(142)	(22)		(120)	142	22		120																	Deferral	2
4073441	L I – Springside Dr Seneca Ave; Aldercrest Ave	4	(845)	(500)	(4)	(341)					845	500	4	341													Deferral	3
4073541	LI – Acadia Dr – Upper Sherman Ave – Easement	4	(536)	(346)	(91)	(99)	536	354	83	99																	Deferral	3 A
4071429	Elgin St – Robert St to Cannon St	3	(128)			(128)																		8	(8)		Deferral	3 A
NEW	Tragina Ave – Roxborough to Appr 85m south of Dunsmure	3																					(128)			(128)	Deletion	1
NEW	Edgemont St – King St to Approx 85m N of Lawrence	3																	(380)			(380)	(380)			(380)	Deletion	2
NEW	East 26th St – Queensdale to Approx 64m S of Concession	3																	(295)			(295)	(295)			(295)	Deletion	2
NEW	Inverness Ave – Upper Wellington St to East 13th St	3																	(1,740)			(1,740)	(1,740)			(1,740)	Deletion	2
NEW	Ottawa St – King St to Approx 70m N of Lawrence	3																	(295)			(295)	(295)			(295)	Deletion	2
NEW	Park Row – King St to Approx 82m N of Lawrence	3																	(439)			(439)	(439)			(439)	Deletion	2
NEW	Gage Avenue Tunnel	3									(700)			(700)	(15,000)			(15,000)	(259)			(259)	(259)			(259)	Deletion	2
NEW	Paling Ct – Roxborough Ave to Dunsmure Rd	3																	(12,000)			(12,000)	(27,700)			(27,700)	Deletion	2
NEW	Grosvenor Ave – Maple Ave to Main St	3																	(306)			(306)	(306)			(306)	Deletion	2
NEW	Dundurn St – Glenside to Approx 210m south	3																	(180)			(180)	(180)			(180)	Deletion	2
4071534	East 23rd St – MacLennan St to 180m Southerly	3	(274)	(34)		(240)									(38)			(38)	(368)			(368)	(406)			(406)	Deletion	2 A
4071620	Greenhill Ave – Kimberly Dr – Green	3					(100)			(100)	(339)	(119)		(220)	(3,699)			(3,699)					(274)	(34)		(240)	Deletion	3 A
NEW	Greenway Ave – Wilson Ave to Cannon St	3																					(4,138)	(119)		(4,019)	Deletion	3
NEW	Hazel Ave – Wilson Ave to Cannon St	3													(130)			(130)					(130)			(130)	Deletion	3
NEW	East 32nd – Munn to App. 137m north of Crockett	3													(116)			(116)					(116)			(116)	Deletion	3
NEW	Huxley Ave – Main St to Appr. 90m North of King St	3													(38)			(38)	(213)			(213)	(251)			(251)	Deletion	3
NEW	Terrace Dr – Clarendon Ave to Mitchell Ave	3																	(490)			(490)	(490)			(490)	Deletion	3
NEW	Tuxedo Ave – Appr. 100m South of Monterey Ave to Main St	3													(280)			(280)					(280)			(280)	Deletion	3
4071505	ANNUAL – Local Improvements – Storm	4																	(560)			(560)	(560)			(560)	Deletion	3
4071717	Unspecified Projects Related to Storm Flooding	3													(2,027)	(1,405)		(622)	(1,000)	(500)		(500)	(3,027)	(1,905)		(1,122)	Reduction	1 A
4071509	ANNUAL – Rehabilitation – Unspecified and No Dig Repairs	1					(340)			(340)	(69)			(69)	(1,256)			(1,256)	(644)			(644)	(1,969)			(1,969)	Reduction	1
4071501	ANNUAL – Minor Improvements – Storm	2	58			58	128			128					(249)			(249)	(473)			(473)	(1,062)			(1,062)	Reduction	2 A
NEW	Sterling – Storage Tank	3																	(336)			(336)	(150)			(150)	Reduction	2 A
															(5,500)			(5,500)	(2,000)			(2,000)	(7,500)			(7,500)	Reduction	4
	Total Before Inflation		(1,876)	(902)	(95)	(879)	2,871	628	83	2,160	(1,511)	226	4	(1,741)	(29,781)	(1,502)		(28,279)	(21,778)	(500)		(21,278)	(52,075)	(2,050)	(8)	(50,017)		
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%						
	TOTAL		(1,914)	(920)	(97)	(897)	2,987	653	86	2,247	(1,603)	240	4	(1,848)	(32,236)	(1,626)		(30,610)	(24,045)	(552)		(23,493)	(56,811)	(2,205)	(6)	(54,600)		
STORM SEWER PROGRAM – WIP PROJECTS																												
4071422	Monterey Ave; Barons Ave; Weir ST S; Auburn Ave	3	(110)			(110)	110			110																		
4071803	Catherine St Combined Sewer Overflow	3	(6,844)	(1,700)		(5,144)	(4,026)			(4,026)																	Deferral	1
4071443	Major Rehabilitation – Storm Sewers	1	(210)			(210)																	(10,870)	(1,700)		(9,170)	Reduction	2
																							(210)			(210)	Reduction	2
	TOTAL		(7,164)	(1,700)		(5,464)	(3,916)			(3,916)																		
	TOTAL STORM SEWER PROGRAM		(9,078)	(2,620)	(97)	(6,361)	(929)	653	86	(1,669)	(1,603)	240	4	(1,848)	(32,236)	(1,626)		(30,610)	(24,045)	(552)		(23,493)	(67,891)	(3,905)	(6)	(63,980)		

ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999
CAPITAL BUDGET
SUPPLEMENTARY PROJECTS
SCHEDULE "C"
PROGRAM ENHANCEMENTS

ENVIRONMENTAL SERVICES DEPARTMENT

1995 – 1999 CAPITAL BUDGET

PROGRAM ENHANCEMENTS – SCHEDULE "C"

TOTAL (Inflated)	1995	1996	1997	1998	1999	TOTAL
Gross	**7,419**	**25,355**	**9,857**	**2,489**	**1,434**	**46,554**
Revenues	**3,015**	**9,657**	**4,377**	**430**	**439**	**17,918**
DC Credit	**650**	**3,486**	**1,609**	**57**	**59**	**5,861**
Net	**3,754**	**12,212**	**3,871**	**2,002**	**936**	**22,775**

WATERWORKS

(Inflated)	1995	1996	1997	1998	1999	TOTAL
Gross	1,256	1,575	265	271	276	3,643
Revenues	297	378	143	146	149	1,113
DC Credit	10	35	16	16	17	94
Net	949	1,162	106	109	110	2,436

SANITARY SEWERS

(Inflated)	1995	1996	1997	1998	1999	TOTAL
Gross Cost	4,247	16,519	5,985	162	166	27,079
Revenue	2,209	8,958	4,095	142	145	15,549
DC Credit	585	3,430	1,573	20	21	5,629
Net Cost	1,453	4,131	317	0	0	5,901

STORM SEWER

(Inflated)	1995	1996	1997	1998	1999	TOTAL
Gross Cost	1,405	5,001	3,594	2,043	979	13,022
Revenue	451	321	139	142	145	1,198
DC Credit	55	21	20	21	21	138
Net Cost	899	4,659	3,435	1,880	813	11,686

WASTE MANAGEMENT

(Inflated)	1995	1996	1997	1998	1999	TOTAL
Gross Cost	511	2,260	13	13	13	2,810
Revenue	58	0	0	0	0	58
DC Credit	0	0	0	0	0	0
Net Cost	453	2,260	13	13	13	2,752

Printed as at 30-Jan-95

ENH No.	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
1	L.I. – Glover Rd S. – 45 m to 165 m s/o Hwy #8 – wm	4	70	30		40																	70	30		40	1
2	Brittania Ave–Strathearne to Ivon – w/m replacement	3					337			337													337			337	1 *
3	Leak Detection	1	100			100	100			100	100			100	100			100	100			100	500			500	2
4	High Lift P.S. – Rewind Motors (4)	9	100			100	150			150													250			250	2
5	Murray St. – Bay to James–w/m replacement	3	185	50		135																	185	50		135	3 A
6	King W.–Bay St. to James St. – w/m replacement	3	200	20		180																	200	20		180	3
7	Bendamere–Mayfair to Tally Ho– w/m replacement	2	146	36		110																	146	36		110	3
8	Eastwood–Melvin to Heath/Heath–Eastwood to Sumach	3	200	50		150																	200	50		150	3
9	King St.E. s/leg–Hughson to John – w/m replacement	3	120	15		105																	120	15		105	3 A
10	Burlington St – Hillyard to Wilfred Replace	3					337	57		280													337	57		280	3
11	Baseline Rd–Winona to N. Service–w/m replacement	3					240			240													240			240	3 A
12	ANNUAL – Subdivision Oversizing	4	100	90	10		150	135	15		150	135	15		150	135	15		150	135	15		700	630	70		5
13	Subdivision Non–Recoverable	4	10			10																	10			10	5
14	Carlisle – Well & Elevated Tank – Land & Prelim. Eng.	4					200	171	19	10													200	171	19	10	5
	Total Before Inflation		**1,231**	**291**	**10**	**930**	**1,514**	**363**	**34**	**1,117**	**250**	**135**	**15**	**100**	**250**	**135**	**15**	**100**	**250**	**135**	**15**	**100**	**3,495**	**1,059**	**89**	**2,347**	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%					
	TOTAL		**1,256**	**297**	**10**	**949**	**1,575**	**378**	**35**	**1,162**	**265**	**143**	**16**	**106**	**271**	**146**	**16**	**108**	**276**	**149**	**17**	**110**	**3,643**	**1,113**	**94**	**2,435**	
	Debt Charge for Above Expenditures					**126**				**154**				**14**				**14**				**15**					
	Cumulative Debt Charges									**126**				**280**				**294**				**308**					

Printed as at 31–Jan–95

ENH No.	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
1	Brampton St–76m E of Waterloo to 76m Easterly (Lining)	1	30			30																	30			30	1
2	LI – Glover Road – Glover Access Road	4	855	694	37	124																	855	694	37	124	1
3	Labs – Fume Hood Installation & Roofing	7	20			20																	20			20	1
4	LI – Springside Drive – Spalding to Alderlea	4	257	173		84																	257	173		84	1
5	Burlington Street – Wellington to 110m Westerly	3	85			85																	85			85	1 A
6	Ferguson Ave North – Barton to Cannon	2	137	23		114																	137	23		114	2 A
7	Pumping Stn S–D1 Sleepy Hollow Rd Refurbishment	9	15			15	85			85													100			100	2
8	Labs – AA Room Exhaust	7	40			40																	40			40	2
9	Labs – Skalar Upgrade	7					60			60													60			60	2
10	Fennell Ave – 100m East of High to Princeton – Lining	1					19			19													19			19	2 A
11	East 25th St – Concession to Crockett – Lining	1					25			25													25			25	2 A
12	Bobolink Road – Upper Wellington to Bluebird	3	93	3		90																	93	3		90	3
13	LI – Barton Street – 270m West of McNeilly to Christina	4	369	180		189																	369	180		189	3 A
14	King Street East – Hughson to John	3	142	25		117																	142	25		117	3 A
15	East 25th St at Crockett – Dog Leg	3					16			16													16			16	3 A
16	West Park Avenue – Storage Tank	3	230	191	39		6,000	5,022	978		1,000	841	159										7,230	6,054	1,176		4 A
17	ANNUAL – Subdivision Oversizing	4	50	43	7		150	130	20		150	131	19		150	131	19		150	131	19		650	566	84		5
18	Pumping Stn S–H25 – Olympic Dr/King St	9	1,000	491	410	99	6,000	3,159	2241	600	3,000	1,634	1067	299									10,000	5,284	3,718	998	5 A*
19	Subdivision Non–Recoverable	4	10			10																	10			10	5
20	LI – Confederation Dr – Nash Rd N to 585m Easterly	4	525	343	81	101																	525	343	81	101	5 *
21	Greenhill Ave–Mtn Brow N/E Area–Satellite City	4					357	299	58		1,490	1,253	237										1,847	1,552	295		5
	Total Before Inflation		3,858	2,166	574	1,118	12,712	8,610	3,297	805	5,640	3,859	1,482	299	150	131	19		150	131	19		22,510	14,897	5,391	2,222	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%					
	TOTAL		3,935	2,209	585	1,140	13,226	8,958	3,430	838	5,985	4,095	1,573	317	162	142	21		166	145	21		23,474	15,549	5,630	2,295	
	Debt Charge for Above Expenditures					151				111				42													
	Cumulative Debt Charges									151				262				304				304					

1995 – 1999 SANITARY CAPITAL BUDGET PLANT PROGRAM ENHANCEMENTS – SCHEDULE "C"

Printed as at 31–Jan–95

ENH No.	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost	Rating
PLANT 1	Woodward WWTP – Upgrade Breakers Emergency Standby	8	100			100	137			137	237			237	2
PLANT 2	Replace Switchgear – Pump House	8	206			206	2,700			2,700	2,906			2,906	2
PLANT 3	Woodward WWTP – Replace Pumps in Wet Well	8					328			328	328			328	2
	Total Before Inflation		306			306	3,165			3,165	3,471			3,471	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%					
	TOTAL		312			312	3,293			3,293	3,605			3,605	
	Debt Charge for Above Expenditures					41				437					
	Cumulative Debt Charges									41					

Printed as at 31–Jan–95

ENH No.	Description	Cat	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL GROSS COST	TOTAL REVENUE	TOTAL DC CREDIT	TOTAL NET COST	Rating
1	Burlington Street – Wellington St to 110m westerly	3	130			130																	130			130	1 A
2	ANNUAL – Unspecified Major Maintenace	2	237			237	237			237	237			237	237			237	237			237	1,185			1,185	2 A
3	Weir St–Roxb. to 94m s of Dunsmure & Britt. to Roxb.(replace	3					305	37		268													305	37		268	2 A
4	East 25th St – Concession to Crockett – Lining	1					25			25													25			25	2 A
5	Fennell Ave – Approx 100m east of High to Princeton – Lining	1					19			19													19			19	2 A
6	Ferguson Ave – Cannon to Robert	3	310	50		260																	310	50		260	3 A
7	King Street East – Hughson St to John St	3	120	46		74																	120	46		74	3 A
8	Wellington St – Cannon St to Robert St	3					250	105		145													250	105		145	3
9	East 25th St at Crockett – Dogleg	3					16			16													16			16	3 A
10	Baxter St–Winston to Bowman; Bowman St–Baxter to Sussex	3					305	37		268													305	37		268	3
11	West Park Avenue – Storage Tank	3	170			170	3,000			3,000	500			500									3,670			3,670	4 A
12	Birch Ave – Storage Tank	3					500			500	2,500			2,500	1,500			1,500	500			500	5,000			5,000	4
13	ANNUAL – Subdivision Oversizing	4	400	346	54		150	130	20		150	131	19		150	131	19		150	131	19		1,000	869	131		5
14	Subdivision Non–Recoverable	4	10			10																	10			10	5
	Total Before Inflation		1,377	442	54	881	4,807	309	20	4,478	3,387	131	19	3,237	1,887	131	19	1,737	887	131	19	737	12,345	1,144	131	11,070	
	Inflation Factor		102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%					
	TOTAL		1,405	451	55	899	5,001	321	21	4,659	3,594	139	20	3,435	2,043	142	21	1,880	979	145	21	814	13,022	1,198	138	11,687	
	Debt Charge for Above Expenditures					119				618				456				249				108					
	Cumulative Debt Charges									119				737				1,193				1,442					

PROGRAM ENHANCEMENTS

ENH #	Description	EXPENDITURES 1995 Gross	1995 Revenue		1995 Net	1996 Gross	1996 Revenue	1996 Net	1997 Gross	1997 Revenue	1997 Net	1998 Gross	1998 Revenue	1998 Net	1999 Gross	1999 Revenue	1999 Net	TOTAL Gross	TOTAL Revenue	TOTAL Net	Rating
1	COMP. ENVIRONMENTAL MONITORING PROGRAM	237			237													237		237	1
2	REGRADING OF UPPER OTTAWA LANDFILL	10			10	800		800										810		810	1
3	SECURITY FENCING – FORMER LANDFILL SITES	60			60													60		60	2A
4	RECYCLING SYSTEM – REPLACEMENT BLUE BOXES (2500)	10	3.5	MOEE	6.5													10	3.5	6.5	2A
5	RECYCLING SYSTEM – ROLLING CARTS (1300 carts)	159	53	MOEE	106	12		12	12		12	12		12	12		12	207	53	154	2B
6	LEACHATE COLLECTION SYSTEM – FORMER BRAMPTON SITE	25			25	1,360		1,360										1,385		1,385	2C
	Total Before Indexing	501	57		445	2,172		2,172	12		12	12		12	12		12	2,709	57	2,653	
	Planned Proposal at 2% Inflation	102.00%	102.00%		102.00%	104.04%	104.04%	104.04%	106.12%	106.12%	106.12%	108.24%	108.24%	108.24%	110.41%	110.41%	110.41%				
	Total	511	58		453	2,260		2,260	13		13	13		13	13		13	2,810	58	2,752	
	Debt Charge for Above Expenditures				60			300			2			2			2				
	Cumulative Debt Charges							60			360			362			364				

Priority Ratings:

1) Hazards impacting on members of the public, Regional employees, agencies/services, etc.

2) Prevention of significant deterioration of assets associated with the present Waste Management System and improve conditions to avert an adverse effect on the natural environment.

A) In order to maintain the existing service level.

B) In order to provide less costs for Contractual Services relating to the Region's New Solid Waste Disposal Facility Contract which will be in effect January 1, 1996.

C) In order to adhere to health and environmental improvements.

ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999
CAPITAL BUDGET

SCHEDULE "D"

PROPOSED PLANT/OUTSTATIONS
DETAILED LISTING
(ALLOCATION INCLUDED IN SCHEDULE "A")

1995 – 1999 WATERWORKS CAPITAL BUDGET PROPOSED PLANT PROJECTS

Printed as at 21 – Jan – 95

Description	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
PUMC Plant Contractual Allocation (1994 $'S)	205			205	215			215	222			222	230			230	218			218	1,090			1,090
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
INFLATED PUMC PLANT CONTRACTUAL ALLOCATION	**209**			**209**	**224**			**224**	**236**			**236**	**249**			**249**	**241**			**241**	**1,159**			**1,159**
PROPOSED PUMC PLANT PROJECTS (1994 $'s)																								
WTP – Operational Improvements	180			180																	180			180
Plant Operational Manuals	25			25																	25			25
To be determined after discussions with PUMC					215			215	222			222	230			230	218			218	885			885
Total Before Inflation	**205**			**205**	**215**			**215**	**222**			**222**	**230**			**230**	**218**			**218**	**1,090**			**1,090**
Inflation Factor	**102.0%**	**102.0%**	**102.0%**	**102.0%**	**104.0%**	**104.0%**	**104.0%**	**104.0%**	**106.1%**	**106.1%**	**106.1%**	**106.1%**	**108.2%**	**108.2%**	**108.2%**	**108.2%**	**110.4%**	**110.4%**	**110.4%**	**110.4%**				
TOTAL PROPOSED PUMC PLANT PROJECTS	**209**			**209**	**224**			**224**	**236**			**236**	**249**			**249**	**241**			**241**	**1,159**			**1,159**

Printed as at 23–Jan–95

Description	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
PUMC Outstation Contractual Allocation (1994 $'s)	2,746	1,804		942	1,421	1,130		291					1,042	733		309					5,209	3,667		1,542
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
INFLATED PUMC OUTSTATION CONTRACTUAL ALLOCATION	**2,801**	**1,840**		**961**	**1,478**	**1,176**		**303**					**1,128**	**793**		**334**					**5,407**	**3,809**		**1,598**
PROPOSED PUMC OUTSTATION PROJECTS																								
Lynden Pumping Station Alterations	81			81																	81			81
Freelton Elevated Reservoir	300	253	7	40	1,522	1,283	33	206													1,822	1,536	40	246
Pumping Station W–H6B	114	75	33	6																	114	75	33	6
Well W–F4B Greensville – Pump and Standby Power	50	34	4	12	150	101	11	38													200	135	15	50
Reservoir AOA and Feedermain	1,535	760	84	691	2,500	1,238	138	1,124													4,035	1,998	222	1,815
High Lift Pumping Station – Hydro Meters	26			26																	26			26
Pumping Stn – North Sydenham Neighbourhood	770	693	77																		770	693	77	
High Lift Pumping Station – Vacuum Breakers	53			53																	53			53
Pumping Station H2 Ferguson Ave – valves	33			33																	33			33
Carlisle Elevated Reservoir									300	257	28	15	1,000	855	95	50					1,300	1,112	123	65
Lynden Water Distribution System – Second Well									50			50	300			300					350			350
Total Before Inflation	2,962	1,815	205	942	4,172	2,622	182	1,368	350	257	28	65	1,300	855	95	350					8,784	5,549	510	2,725
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
PROPOSED PUMC OUTSTATION ALLOCATION	**3,021**	**1,851**	**209**	**961**	**4,341**	**2,728**	**189**	**1,423**	**371**	**273**	**30**	**69**	**1,407**	**925**	**103**	**379**					**9,140**	**5,777**	**531**	**2,832**
ADDITIONAL ALLOCATION REQUIRED (1994 $'s)	**216**	**11**	**205**		**2,751**	**1,492**	**182**	**1,077**	**350**	**257**	**28**	**65**	**258**	**122**	**95**	**41**					**3,575**	**1,882**	**510**	**1,183**
ADDITIONAL ALLOCATION REQUIRED (Inflated)	**220**	**11**	**209**	**(0)**	**2,863**	**1,552**	**189**	**1,120**	**371**	**273**	**30**	**69**	**279**	**132**	**103**	**45**					**3,733**	**1,968**	**531**	**1,234**

Printed as at 02–Feb–95

Description	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
PUMC Plant Contractual Allocation (1994 $'s)	10,383	23		10,360	5,938			5,938	5,905			5,905	1,793			1,793	6,005	6		5,999	30,024	29		29,995
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
INFLATED PUMC PLANT CONTRACTUAL ALLOCATION	**10,591**	**23**		**10,567**	**6,178**			**6,178**	**6,266**			**6,266**	**1,941**			**1,941**	**6,630**	**7**		**6,623**	**31,606**	**30**		**31,576**
PROPOSED PUMC PLANT PROJECTS (1994 $'s)																								
Woodward WWTP – Replace Pumps – Pumphouse	300			300																	300			300
WWTP – Retrofitting for Nitrification	400	200		200																	400	200		200
Woodward WWTP – Replace Safety Railings	770			770																	770			770
WWTP South Secondary Clarifier Upgrade	2,151			2,151																	2,151			2,151
Woodward WWTP – Rehab Gas System	1,170			1,170																	1,170			1,170
Expansion of Primary Clarifiers	4,645			4,645																	4,645			4,645
WWTP Preliminary Treatment – Replace Bar Screens	440			440																	440			440
ANNUAL – Woodward WWTP – Operational Improvements	100			100																	100			100
Dundas WWTP Clarifier Refurbishment	37			37																	37			37
Plant Supervisory Control System	300			300																	300			300
Plant Operational Manuals	25			25																	25			25
WWTP – Gas Compressor Replacement	80			80																	80			80
Bartlett Lagoon	72			72																	72			72
Incinerator Computers	40			40																	40			40
Legal – Outside Counsel	30			30																	30			30
To be determined after discussions with PUMC					5,938			5,938	5,905			5,905	1,793			1,793	5,999			5,999	19,635			19,635
Total Before Inflation	**10,560**	**200**		**10,360**	**5,938**			**5,938**	**5,905**			**5,905**	**1,793**			**1,793**	**5,999**			**5,999**	**30,195**	**200**		**29,995**
Inflation Factor	**102.0%**	**102.0%**	**102.0%**	**102.0%**	**104.0%**	**104.0%**	**104.0%**	**104.0%**	**106.1%**	**106.1%**	**106.1%**	**106.1%**	**108.2%**	**108.2%**	**108.2%**	**108.2%**	**110.4%**	**110.4%**	**110.4%**	**110.4%**				
TOTAL PUMC PROPOSED PLANT PROJECTS	**10,771**	**204**		**10,567**	**6,178**			**6,178**	**6,266**			**6,266**	**1,941**			**1,941**	**6,623**			**6,623**	**31,780**	**204**		**31,576**

1995 – 1999 SANITARY CAPITAL BUDGET PROPOSED OUTSTATION PROJECTS

Printed as at 23-Jan-95

Description	1995 Gross Cost	1995 Revenue	1995 DC Credit	1995 Net Cost	1996 Gross Cost	1996 Revenue	1996 DC Credit	1996 Net Cost	1997 Gross Cost	1997 Revenue	1997 DC Credit	1997 Net Cost	1998 Gross Cost	1998 Revenue	1998 DC Credit	1998 Net Cost	1999 Gross Cost	1999 Revenue	1999 DC Credit	1999 Net Cost	TOTAL Gross Cost	TOTAL Revenue	TOTAL DC Credit	TOTAL Net Cost
PUMC Outstation Contractual Allocation (1994 $'s)	3,074	933		2,141	204			204					161			161	956	438		518	4,395	1,371		3,024
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
INFLATED PUMC OUTSTATION CONTRACTUAL ALLOCATION	**3,135**	**952**		**2,184**	**212**			**212**					**174**			**174**	**1,056**	**484**		**572**	**4,577**	**1,435**		**3,142**
PROPOSED PUMC OUTSTATION PROJECTS																								
Beach Boulevard Phase 2	1,827	692	221	914																	1,827	692	221	914
Sewage Pump Station S-W5 Rockcliffe	225	102	101	22																	225	102	101	22
Sewage Pump Stn S-D6 Hillside Ave	150			150																	150			150
Mount Hope Urban Settlement Area	1,000	415	86	499																	1,000	415	86	499
Sewage Pumping Station S-H24 McCollum Rd	1,334	899	82	353																	1,334	899	82	353
Pump Stn SH5 Overflow Old Dundas Rd	5			5	150			150													155			155
Pumping Stn SH-5 Refurbishment – Old Dundas Rd	74			74																	74			74
Calvin Street-Sewage Pumping Station S-H11													460	290	32	138					460	290	32	138
Pumping Station S-D8 King St – Add Pump Aux Equip	124			124																	124			124
Pumping Stn S-H28 – Hwy #53 / Hamilton Dr													226	159	44	23	1,740	1,225	341	174	1,966	1,384	385	197
Pumping Station S-H18 Hwy #6 / Twenty Road					267	91	122	54													267	91	122	54
Total Before Inflation	4,739	2,108	490	2,141	417	91	122	204					686	449	76	161	1,740	1,225	341	174	7,582	3,873	1,029	2,680
Inflation Factor	102.0%	102.0%	102.0%	102.0%	104.0%	104.0%	104.0%	104.0%	106.1%	106.1%	106.1%	106.1%	108.2%	108.2%	108.2%	108.2%	110.4%	110.4%	110.4%	110.4%				
PROPOSED PUMC OUTSTATION ALLOCATION	**4,834**	**2,150**	**500**	**2,184**	**434**	**95**	**127**	**212**					**743**	**486**	**82**	**174**	**1,921**	**1,352**	**376**	**192**	**7,931**	**4,083**	**1,085**	**2,762**
ADDITIONAL ALLOCATION REQUIRED (1994 $'s)	**1,665**	**1,175**	**490**		**213**	**91**	**122**						**525**	**449**	**76**		**784**	**787**	**341**	**(344)**	**3,187**	**2,502**	**1,029**	**(344)**
ADDITIONAL ALLOCATION REQUIRED (Inflated)	**1,698**	**1,199**	**500**		**222**	**95**	**127**						**568**	**486**	**82**		**866**	**869**	**376**	**(380)**	**3,354**	**2,648**	**1,085**	**(380)**

ENVIRONMENTAL SERVICES DEPARTMENT

1995 - 1999 CAPITAL BUDGET

SCHEDULE "E"

CATEGORY & PRIORITY RATING DEFINITIONS

Category Definitions

Category #	Category Name
1	Rehabilitation
2	Replacement
3	Upgrade
4	Extension
5	Studies
6	Cost Allocations
7	Labs / Sewer Use Control
8	PUMC - Plant
9	PUMC - Outstations

Priority Rating Definitions

Rating #	*Description*
1	Hazards impacting on members of the public, Regional employees, agencies/services, etc.
2	Prevention of significant deterioration of assets associated with the present infrastructure service and improvement of conditions to avert an adverse effect on the natural environment.
3	Provision of adequate environmental services for existing development and for work by other agencies.
4	Provision of Remedial Action Plans to address identified areas of environmental concern and to maintain an adequate level of service to Regional consumers.
5	Provision for new services.
6	Need to meet longer term requirements with regard to consumer demand and proposed legislation via the achievement of Long Term Environmental Strategic Objectives.
*	The Region has either made a prior commitment or the work is required for special circumstances (i.e. Haldimand-Norfolk water supply).
A	The project is related to other Environmental Services works.

ENVIRONMENTAL SERVICES DEPARTMENT

1995-99 CAPITAL BUDGET PROJECT CATEGORIES

The following table which describes the project categories used for arranging projects proposed in the 1995-99 Capital Budget is based on the following assumptions:

1. The agreement between the Region and PUMC includes all plant activities at Woodward Avenue Treatment Facility, the Dundas WWTP and the Waterdown WWTP, all remote pumping stations and reservoirs, (referred to as Outstations), including communal systems.

2. The distribution system (water) and collection systems (sanitary and storm) include all other facilities not covered by item 1 above.

3. The wet well at the WWTP is assumed to be included in the Plant items, while the High Lift pumping station is assumed to be included in the Outstation items.

1995-99 ENVIRONMENTAL SERVICES CAPITAL BUDGET PROJECT CATEGORIES

ROJECT ATEGORY	PROJECT ACTIVITY	WATER	SANITARY	STORM
Rehabilitation	in-situ repair of the existing distribution or collection system	includes work such as cleaning and lining of watermains, structural repair of valve chambers.	includes work such as sewer relining, sewer patching, structural repairs to manholes and storage tanks.	includes work such as sewer relining, sewer patching, structural repairs to manholes and motorized gates, tanks.
Replacement	reconstruction of any components of the existing distribution or collection system where size, capacity, configuration and operation is not changed.	includes work such as watermain construction, valve and hydrant replacement, water service replacement.	includes work such as sewer construction, manhole replacement, private drain repair.	includes work such as sewer construction, manhole replacement, private drain repair.
Upgrade	reconstruction of the existing system where any of size, capacity, configuration or operation is changed to provide increased system performance, includes purchase of land for easements for existing system components.	includes work such as watermain reconstruction where the size is increased or additional links are provided for reliability and security, where additional valving is provided to shorten shutdown routes.	includes work such as sewer replacement where the size is increased, installation of new equipment at CSO regulators, installation of sensors.	includes work such as storm relief sewer construction, dog-legs, CSO tanks, stormwater management ponds, sediment management devices, real time control systems.
Extension	construction of new system components to provide service to previously unserviced existing development or to provide service for new development. This includes petitioned and municipally initiated Local Improvements.	includes works such as trunk and distribution watermains, to meet additional demand, services required for water sales to external Regions.	includes works such as trunk and collector sewers, to meet additional demand.	includes works such as trunk and collector sewers, stormwater and sediment management devices.
Studies	investigative reports prepared by staff or consultants on specific projects or problem areas.	includes work such as monitoring of consumption, modelling of distribution system, servicing alternatives, failure analysis, preliminary engineering, needs studies.	includes work such as flow monitoring, modelling of collection system, servicing alternatives, preliminary design, failure analysis, needs studies.	includes work such as flow and water quality monitoring, modelling of the major and minor drainage system, CSO tank sizing, master drainage planning.
Cost Allocations	expenditures required for use of services from other departments.	includes payment for design and construction services by Roads, Legal services, Finance services.	includes payment for design and construction services by Roads, Legal services, Finance services.	includes payment for design and construction services by Roads, Legal services and Finance services.

1995-99 ENVIRONMENTAL SERVICES CAPITAL BUDGET PROJECT CATEGORIES

PROJECT CATEGORY	PROJECT ACTIVITY	WATER	SANITARY	STORM
7. Regional Labs and Sewer Use Control	all Capital works associated with equipping, operating and maintaining the Regional Laboratory facilities and the Sewer Use Control program.	includes purchase of new equipment, replacement of worn-out or obsolete equipment, repair or replacement of facilities in the Regional Labs for the purposes of analysis of drinking water quality.	includes purchase of new equipment, replacement of worn-out or obsolete equipment, repair or replacement of facilities in (1) Regional Labs, for the purposes of analysis of combined sewage, stormwater or wastewater quality, or (2) Sewer Use Control program, for the purposes of monitoring and controlling discharges from industrial sites.	not applicable to this program.
. PUMC-Plant	all Capital works associated with providing treated water to the distribution system or sewage treatment.	includes all Capital works related to the Woodward Avenue WTP including the low lift pumping station, but excluding the high lift station. Includes motor overhaul, pump replacement or installation, structural or aesthetic repairs to buildings and facilities, expansion of capacity of facilities to meet additional demand.	includes all Capital works related to the treatment of domestic and combined sewage at the Woodward Avenue, Dundas and Waterdown WWTP's, including the wet well. Includes motor overhaul, pump replacement or installation, structural or aesthetic repairs to buildings and facilities, expansion of capacity of facilities to meet additional demand.	not applicable to this program.
PUMC - utstations	all Capital works associated with water or sewage pumping stations or potable water reservoirs.	includes all Capital works related to water pumping stations, including the high lift station; water storage reservoirs; and communal water supply systems including the source wells. Includes motor overhaul, pump replacement or installation, structural or aesthetic repairs to buildings and facilities, expansion or construction of facilities to meet additional demand.	includes all Capital works related to the sewage pumping stations, and any communal sewage treatment systems. Includes motor overhaul, pump replacement or installation, structural or aesthetic repairs to buildings and facilities, expansion or construction of facilities to meet additional demand.	not applicable to this program.

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